INTRASPECIFIC DIVERSITY IN CUTTHROAT TROUT
AGREEMENT # RMRS-99596-RJVA

FINAL REPORT

Submitted to the Rocky Mountain Research Station
by

Kathleen E. McGrath
J. Michael Scott

ID Cooperative Fish & Wildlife Research Unit
College of Natural Resources
University of Idaho
Moscow, ID 83844

JANUARY 10, 2003

Part 1

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INTRODUCTION AND SUMMARY

This final report summarizes project accomplishments regarding characterization of size variation in age 0 westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in the North Fork Coeur d' Alene River basin, northern Idaho. Spatial scales and environmental correlates were identified that were associated with age 0 size variation. Relationships between size variation and habitat variables at the stream reach and habitat unit scale were also examined. Two manuscripts for submittal to peer-reviewed journals have been prepared as part of this project. They are presented in appendices I and II. Abstracts follow:

Relationships between Habitat Structural Diversity and Length Variation in Age 0 Westslope Cutthroat Trout (*Oncorhynchus clarki lewisi*) across Spatial Scales

Phenotypic variation plays a critical part in many evolutionarily and ecologically essential functions, including adaptation to local conditions and disturbance regimes, speciation processes, and reduction in intra- and interspecific competition through niche differentiation. Organism size drives many ecological processes, including competition, predation, habitat selection, and reproductive success. However, no one size may be most successful: size variation has ecological value as well, allowing for niche differentiation and therefore reduction in competition, and by stabilizing population abundance in variable environments. Habitat diversity may support or generate size variation by providing diverse habitats for diverse organism sizes. Direct mechanisms include niche diversity and complexity providing habitats with differential growth potential and opportunity for ontogenetic niche shifts between habitats. Indirect

mechanisms include predation (e.g. size-selective predation) and competition (e.g. size-mediated territoriality). Organism-habitat relationships are scale dependent; scale must therefore be considered in habitat studies. We examined organism size - habitat diversity relationships of age 0 westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in the Coeur d' Alene River subbasin of northern Idaho at stream, reach, and habitat unit scales. At the stream scale, the effect of valley width on habitat and size structure was examined. We found significant differences in the source, type, substrate, and occurrence of sculpins in habitat units in narrow and wide valleys. Habitat units in narrow valleys were more likely to be generated by boulder rather than woody debris or scour processes, dominated by larger substrates, narrower and shallower (maximum depth) and less likely to contain sculpins. Habitat unit types were also less diverse in narrow valley stream reaches. Significant differences in age 0 size or size variation between narrow and wide valleys were not found; age 0 density was however significantly higher in narrower valley habitat units. At the reach scale, habitat units containing large age 0 fish were more likely to be formed by boulder or wood and less likely to be formed by scour processes. Units containing large fish also tended to have larger substrates (boulder, cobble) and were more likely to have access by predators and to have diverse habitat (characterized by flow, cover, substrate diversity). Units containing large age 0 individuals were also wider and deeper (average depth) than units containing small individuals. At the unit scale, habitat units containing heterogeneous fish sizes (large and small individuals) were more likely to have an open canopy and to be formed by scour rather than boulder or wood, and were less likely to have complete predator access, than units containing homogeneous fish sizes (all large, medium, or small). Units occupied by heterogeneous sizes also tended to have larger substrate sizes and were longer and larger and contained more individuals/unit. However, density was not significantly different between units containing homogeneous and heterogeneous sizes of individuals. Conservation of diverse habitats at multiple spatial scales may be critical to the maintenance and generation of intraspecific diversity. In this study, we demonstrated links between habitat diversity, including characteristics such as depth, substrate, and size of habitat units and size variation in age 0 westslope cutthroat trout at three spatial scales. Understanding processes linking intraspecific diversity and its habitat template across multiple scales is essential to the conservation of intraspecific diversity in inland salmonids.

Length Variation in Age 0 Westslope Cutthroat Trout (*Oncorhynchus clarki lewisi*) across Spatial Scales and Growth Potential Gradients

Phenotypic diversity, or the morphological, behavioral, or life history variation among individuals, is an important component of ecological diversity in fishes. This variation can lead to divergence, radiation, and even speciation via local adaptation and can stabilize populations in variable environments. The benefits of larger body size in salmonids for survival, migratory success, competitive

ability, and predator avoidance is well documented; "bigger is better" is an accepted paradigm in fish ecology. However, big may not always be better. In some circumstances, small may be better, and across annual and longer temporal scales, no one size may be most successful. Size differentiation may reduce intra-cohort competition through niche separation, and size variation may provide important values for a population. Mechanisms controlling size diversification are not well understood. We examined mean body size (CLen) and interquartile range of mean size (CIQR; size diversity) in age 0 westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in the Coeur d' Alene basin, Idaho, among areas (10^0km – area scale), among streams within areas (10^1km – stream scale), and among sites within streams (10^2km – site scale). Relationships of size and size variation with the instream productivity gradients, temperature and productivity (measured as conductivity), and four landscape gradients thought to affect temperature: aspect, elevation, headwater distance, and valley width were used to explore spatial patterns of size variation. Most variation in CLen and CIQR was found among areas (60.5% and 63.6% respectively). Both instream productivity gradients as well as elevation and aspect explained significant variation in mean size whereas only temperature and elevation explained significant variation in size variation. Distribution of variation in length variables most closely matched conductivity, temperature, aspect, and elevation, supporting the potential for productivity and temperature to have causal roles in generating size variation and suggesting that causal mechanisms occur at the same or larger spatial scales as landscape and instream patterns. Elevation was the only landscape variable explaining significant variation in temperature. Our findings have important implications for conservation of westslope cutthroat trout. Differences in life history characteristics such as migratory behavior, egg size, fecundity, and age at maturity between fish in productive and unproductive environments might be predicted based on life history theory. Populations in high elevation streams may be more sensitive and less resilient to disturbance. Conservation of the full range of variation in this subspecies may require high quality habitats across these gradients and at scales larger than individual streams. Identification of spatial scales at which diversity is generated and environmental gradients generating that diversity are important steps towards understanding diversifying mechanisms and conservation needs of westslope cutthroat trout.

Data generated in this project are referenced under appropriate tasks below and are attached in Appendix III and the zipdisk enclosed.

ACCOMPLISHMENTS 2000-2002

A. Tasks Phase One

1. Conduct fieldwork on up to 12 stream systems in each of the Panhandle and Selway-Bitterroot National Forests, collecting spawning westslope cutthroat

trout by angling, electroshocking, and/or weirs; collecting resident westslope cutthroat trout by electroshocking, collecting stream habitat data.

Collection of spawning fish was not continued during 2000-2002 due to difficulties experienced during 1999.

During 2000 and 2001, age 0 westslope cutthroat trout were collected and measured from 16 and 15 stream systems, respectively, in the Coeur d' Alene River and Wolf Lodge Creek drainages of the Panhandle National Forest. Fish were collected from a total of 20 streams. Stream habitat data including conductivity, temperature, microchemistry ([Ca] and [Sr]), elevation, and valley width were collected from each site sampled per stream. Three sites were sampled on most streams and approximately 34 age 0 trout were measured at each site. All other westslope cutthroat trout captured during age 0 collections were measured. During each year, intensive microhabitat data were collected from one site on each of six streams. Habitat variables included: canopy cover, maximum depth, average depth, substrate size, predator access, cover availability, habitat diversity, sculpins present, habitat unit type and source, habitat unit length and width.

2. **Collect from agencies such as the U.S. Forest Service, Idaho Department of Fish and Game and the University of Montana, existing westslope cutthroat trout community data including size structure, genetic, age/growth, life history, species diversity, and stream habitat information.**

Information regarding instream condition including habitat variables such as temperature, habitat type, and management history has been collected from appropriate Forest Service and Ranger Districts. Watershed management and fish population information has also been collected from the Panhandle National Forest. This information was used in analyses discussed in Task 6 below.

3. **Conduct scale and genetic tissue (microsatellite DNA) analyses to describe age and growth and genetic structuring of the sampled cutthroat populations.**

After consultation with and approval from RMRS, community and genetic diversity components were removed from this project. Project focus was shifted to intraspecific diversity within westslope cutthroat trout.

4. **Characterize sample sites using basin and channel diversity measurements.**

Relationships between age 0 westslope cutthroat trout size variation and habitat characteristics and habitat diversity were explored. Background, methods and findings are presented in manuscript form in Appendix I. Data from this task are included in the datafile Complexity00_01.xls in hardcopy form in Appendix III and on the enclosed zip disk.

5. **Obtain all necessary access authorization and collection permits, coordinate as necessary with Idaho Department of Fish and Game and appropriate U.S. Forest Service and Ranger Districts.**

All permits were obtained as necessary for field collections during 2000-2002. Close coordination with the Panhandle National Forest and RMRS was maintained during fieldwork efforts. RMRS assisted in fieldwork during August 2000 and 2001, and temperature data have been provided as requested to the Panhandle National Forest. Coordination was maintained on a weekly basis with the Idaho Department of Fish and Game as required by the collector's permit.

6. **Describe the variation in growth and size of young of the year cutthroat trout within and among streams included in existing work plans. Provide a subsample of at least 25 fish for analysis of parental origin by life history type in streams that overlap with RMRS objectives.**

Fieldwork described in Task 1 above accomplished the collection of body length and otolith samples from age 0 westslope cutthroat trout throughout the North Fork Coeur d' Alene River and Wolf Lodge Creek drainages. Body size structure studies including background, methods, and findings are presented in manuscript form in Appendix II. Data associated with this task are included in datafiles ScalePat00_02.xls andTemperature00_01.xls in hardcopy form in Appendix III and on the enclosed zipdisk.

Otoliths were collected from age 0 and age 1 individuals from many sites during 2000 and 2001 and will be analyzed for growth patterns and parental origin in cooperation with RMRS. Growth analyses from otolith samples will be conducted external to this contract. Documentation of available otoliths is included in ScalePat00_02.xls. Otoliths will be provided to RMRS upon completion of growth analyses.

Otoliths for microchemistry analyses have been provided to RMRS as requested for 11 streams: Cascade, Cedar, Coal, Copper, Graham, Iron, Lonesome, Marie, Skookum, Tom Lavin, Yellowdog.

B. **Collaborate with the Forest Service in the preparation of a mutually acceptable, detailed work plan, submit a copy of the plan to the Forest Service by December 31, 1999, and conduct this study in compliance with the work plan as well as the provisions of this agreement.**

A work plan in the form of a University of Idaho doctoral dissertation proposal was prepared in September, 1999 and reviewed by RMRS. Modifications to the original study plan have been made after consultation with RMRS.

C. **Interim and final reports.**

This document constitutes the final report for this contract.

RECOMMENDATIONS FOR FUTHER RESEARCH

Continued efforts to understand processes responsible for generating and supporting intraspecific diversity in inland trouts, and ecological and evolutionary significance of that diversity, will be critical to the conservation of these taxa (Gresswell et al. 1994; Healey and Prince 1995). This study identified important environmental gradients (temperature and productivity) that appear related to the generation of size diversity at the reach, stream, and stream neighborhood scales within a subbasin. In addition, we identified several habitat characteristics correlated with size diversity at stream, reach, and habitat unit scales, suggesting that habitat complexity may have a role in generating size variation. Efforts to understand variation in other important phenotypic traits, such as migratory pattern, and other disturbance and habitat characteristics that may contribute to generation of variation, including fire and precipitation patterns (Rieman, 1997 #1388), temporal and spatial variation in productivity, and distribution of refuge and spawning habitats, will also be important. We suggest that the following specific avenues for further research be pursued:

1) Continued effort to understand large scale (subbasin and larger) ecological and evolutionary processes driving diversification;

2) Exploration of habitat complexity at larger spatial scales, including role of disturbance processes, identification of primary gradients (e.g. productivity), and ultimately the definition of a habitat mosaic of patterns, conditions, and templates across multiple scales (Thompson et al. 2001);

3) Use of information generated above to identify redundancies and unique characteristics across large scales (subbasin to range-wide), for more effective conservation, management, and restoration of inland salmonids, their communities, and habitats (Thompson et al. 2001);

4) Exploration of inland salmonid ecosystem biocomplexity. Study of biocomplexity in these systems may help to characterize how organisms respond and adapt to stress, whether adaptation is predictable in a changing environment, and how diversity affects system sustainability (Michener et al. 2001), and may also contribute to the maintenance of diversity and connectivity as these systems are affected by global climate change.

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APPENDIX I - Relationships between Habitat Diversity and Length Variation in Age 0 Westslope Cutthroat Trout (*Oncorhynchus clarki lewisi*) across Spatial Scales

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ABSTRACT

Phenotypic variation plays a critical part in many evolutionarily and ecologically essential functions, including adaptation to local conditions and disturbance regimes, speciation processes, and reduction in intra- and interspecific competition through niche differentiation. Organism size drives many ecological processes, including competition, predation, habitat selection, and reproductive success. However, no one size may be most successful: size variation has ecological value as well, allowing for niche differentiation and therefore reduction in competition, and by stabilizing population abundance in variable environments. Habitat diversity may support or generate size variation by providing diverse habitats for diverse organism sizes. Direct mechanisms include niche diversity and complexity providing habitats with differential growth potential and opportunity for ontogenetic niche shifts between habitats. Indirect mechanisms include predation (e.g. size-selective predation) and competition (e.g. size-mediated territoriality). Organism-habitat relationships are scale dependent; scale must therefore be considered in habitat studies. We examined organism size - habitat diversity relationships of age 0 westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in the Coeur d' Alene River subbasin of northern Idaho at stream, reach, and habitat unit scales. At the stream scale, the effect of valley width on habitat and size structure was examined. We found significant differences in the source, type, substrate, and occurrence of sculpins in habitat units in narrow and wide valleys. Habitat units in narrow valleys were more likely to be generated by boulder rather than woody debris or scour processes, dominated by larger substrates, narrower and shallower (maximum depth) and less likely to contain sculpins. Habitat unit types were also less diverse in

narrow valley stream reaches. Significant differences in age 0 size or size variation between narrow and wide valleys were not found; age 0 density was however significantly higher in narrower valley habitat units. At the reach scale, habitat units containing large age 0 fish were more likely to be formed by boulder or wood and less likely to be formed by scour processes. Units containing large fish also tended to have larger substrates (boulder, cobble) and were more likely to have access by predators and to have diverse habitat (characterized by flow, cover, substrate diversity). Units containing large age 0 individuals were also wider and deeper (average depth) than units containing small individuals. At the unit scale, habitat units containing heterogeneous fish sizes (large and small individuals) were more likely to have an open canopy and to be formed by scour rather than boulder or wood, and were less likely to have complete predator access, than units containing homogeneous fish sizes (all large or small). Units occupied by heterogeneous sizes also tended to have larger substrate sizes and were longer and larger and contained more individuals/unit. Density was not significantly different between units containing homogeneous and heterogeneous sizes of individuals. Conservation of diverse habitats at multiple spatial scales may be critical to the maintenance and generation of intraspecific diversity. In this study, we demonstrated links between habitat diversity, including characteristics such as depth, substrate, and size of habitat units and size variation in age 0 westslope cutthroat trout at three spatial scales. Understanding processes linking intraspecific diversity and its habitat template across multiple scales is essential to the conservation of intraspecific diversity in inland salmonids.

INTRODUCTION

Conservation of intraspecific diversity will be critical for the long-term protection and management of inland cutthroat trout. Intraspecific diversity allows for a species' response to a changing environment, either through natural patterns of change or those imposed on an ecosystem by anthropogenic activities. Conserving the ecological template responsible for generating and maintaining that intraspecific diversity is therefore a mandatory part of any species conservation effort. Understanding the ecological processes and critical components of the habitat template are necessary first steps.

Importance of Size Variation

Phenotypic variation, the intraspecific variation in life history, morphology, and behavior, plays a critical part in many evolutionarily and ecologically essential functions (Healey and Prince 1995). Processes driven by phenotypic variation include adaptation to local conditions and disturbance regimes, speciation processes, and reduction in intra- and interspecific competition through niche differentiation (e.g. Nikol'skiy 1969; Utter 1981; Skulason and Smith 1995). Organism size has been recognized as an important phenotypic characteristic mediating various biological processes, including metabolism, growth, production rate, reproductive condition and commitments, and constraints on body function (Policansky 1983; Stein et al. 1987). In many cases, big may be better, offering juveniles an advantage in intra- and interspecific competitive and predation relationships and likelihood of survival (e.g. Hunt 1969; Abbott et al. 1985; Holtby 1988; Elliott 1989; Elliott 1990; Mikheev et al. 1994; Smith and Griffith 1994;

Quinn and Peterson 1996) and as reviewed by Reznick (1981) and Werner and Gilliam (1984). However, in some cases smaller may be better since e.g. larger individuals may be preferred prey (Power 1987; Harvey 1991; Litvak and Leggett 1992). In other situations, there may be no one "best" size. Niche separation through size or other diversification is a well-accepted paradigm of competition theory (e.g. Skulason and Smith 1995; Landry et al. 1999) and size-based or ontogenetic niche shifts are well-documented (Werner and Gilliam 1984; Mittelbach and Chesson 1987; Erkinaro et al. 1997; Ruzycki and Wurtsbaugh 1999). Variation may maintain recruitment stability and abundance and therefore long-term population survival in a variable environment (den Boer 1968; Lomnicki 1980). Successful conservation of stream fishes may require recognition and understanding of phenotypic variation, including size variation, and processes generating that variation (Gresswell et al. 1994; Healey and Prince 1995).

Importance of Habitat Diversity and Complexity

Habitat diversity and complexity have been recognized as valuable characteristics of a stream by supporting various critical components of stream ecology. Complexity is thought to influence size, structure, distribution, and stability of a population (Sedell et al. 1990; Pearsons et al. 1992) and may also increase a population's resistance to (Poff and Ward 1990; Pearsons et al.1992) and recovery from disturbance (Connell and Sousa 1983). The buffering mechanism provided by more complex habitats may occur through the provision of refugia, providing escape and a source of colonists after disturbance events (Sedell et al. 1990). Harvey (1998) found that pools formed by woody debris tended to retain resident coastal cutthroat trout

longer and found greater abundances in complex (with woody debris) than in simple (without woody debris) pools. Gresswell et al. (1994) suggest that habitat complexity may affect residence time of juveniles before downstream migration, and more complex streams may contain a greater diversity of life history types than streams providing simpler habitat. Lonzarich and Quinn (1995) and others (e.g. Chapman 1966; Everest and Chapman 1972; Nielsen 1992) have found that the combined effects of two or more habitat variables are more important than any one variable alone in affecting distribution, retention, or density of stream fishes. Habitat diversity may also be critical to the conservation of intraspecific diversity. Habitat represents the template upon which phenotypic diversity is developed (Healey and Prince 1995). Habitat terms such as complexity, heterogeneity, diversity, and structure have been used inconsistently and at times interchangeably in the stream ecology literature. We review the literature and include a discussion of complexity concepts and applications below.

Processes Generating a Size Habitat Diversity Relationship

Two mechanisms may contribute to a relationship between fish size variation and habitat complexity: complex habitats may generate size diversity or they may support existing diversity generated by other processes within a stream reach. When small fish are able to move between habitats with different characteristics without risk of predation, harm from physical conditions such as high water velocities, or competitive displacement in high density situations, individuals may move to better conditions as their needs change with size or age. In this scenario diverse habitats may support size variation where that variation is generated through mechanisms such as differential emergence timing within a site or immigration of smaller individuals from upstream.

Similarly, individuals may be forced to emigrate as energetic needs and therefore territory size increases with body size or by smaller individuals or later emergents that are excluded from units already occupied (Mason and Chapman 1965; L'Abee-Lund et al. 1993; Bardonnet and Heland 1994; Huntingford and de Leaniz 1997). Kahler (1999) found that 28 to 60% of tagged juvenile coho salmon, cutthroat trout, and steelhead moved at least several stream habitat units during their first summer in streams in western Washington. Moore and Gregory (1988) found mean age 0 cutthroat trout size to be smaller in isolated pools where emigration was prevented, as well as in backwater habitats, suggesting that in their study streams fish would move when able. In an experimental study, Wilzbach (1985) found cutthroat trout were willing to emigrate if food was limited but were much less willing to move if cover was unavailable. With low food abundance, presence of cover was not sufficient to prevent individuals from emigrating.

However, these conditions are rarely found in headwater stream environments. Predator and competitor densities are often high and physical conditions may be harsh. In this case, individuals may be more likely to stay in sub-optimal conditions where growth is limited rather than risk a worse outcome, and size variation may be generated by habitat complexity through mechanisms such as competition, size-selective predation, and differences between habitat units in e.g. food or cover availability. Moore and Gregory (1988) suggest that salmonid fry generally do not move for several months once territories are established and conclude that habitat quality is therefore critical to growth and survival. Nielsen (1992) found juvenile coho salmon in four habitat types, thalweg, backwater, shifting estuarine, and margin cutbanks, differed in feeding

strategy, food choice, growth, and emergence timing. Early emergers appeared to have obtained optimal habitats, demonstrating larger size than individuals in other habitats. She concluded that the distinct phenotypes emerged in response to heterogeneous habitat conditions and density of intraspecific competitors. In natural stream settings, we suspect that both mechanisms are important, to greater or lesser degrees depending on reach and site-specific balances between the risk and gain associated with moving to a new habitat unit.

Role of Niche Diversity in Generating a Size Habitat Diversity Relationship

The evolution of habitat preferences enables ecological segregation and reduction in competition between individuals occupying the same area (Schoener 1983; Shirvell and Dungey 1983; Sale 1991; Piet et al. 1999). In salmonids, habitat preference is largely size driven (Everest and Chapman 1972; Shirvell and Dungey 1983), although species-specific preferences have also been identified (e.g. Bisson et al. 1988). Lateral habitats provide gradients in characteristics important to age 0 fish, and habitat needs and opportunities change with increasing size. An individual habitat unit may be sufficiently complex to accommodate the needs of a growing age 0 fish throughout its first year, or a complex of units within a reach may provide the mix of conditions for that individual but require it to move to maintain optimal growth.

Ontogenetic niche shifts have been described in the literature primarily between age classes but also to a lesser extent within age classes. Mason and Chapman (1965) were of the first to suggest that emigration of larger age 0 coho salmon may be evidence for an ontogenetic niche shift, with habitat units adequate for emergents no

longer meeting the increasing energetic requirements of larger individuals. Moore and Gregory (1988) found habitat use by age 0 cutthroat trout changed over their first summer, with fish moving within habitat units to deeper, faster water further from the water's edge and cover as they grew. McLaughlin and Grant (1994) found brook trout fry to be longer in faster water, as well as having taller tails, more fusiform bodies, and different food preferences than individuals in slower water. Small changes in body length increase a small fish's ability to swim in faster current, allowing for use of deeper water further away from the stream edge and reduced susceptibility to displacement (Everest and Chapman 1972). Luecke (1986) found cutthroat trout smaller than ~60mm preferred planktonic prey whereas trout greater than ~70mm in length tended to shift to more benthic prey. He concluded that the shift was prey size related from smaller zooplankton to larger benthic invertebrates. Feeding behaviors were associated with changes in cutthroat trout mouth morphology and gape width. It is unclear whether cutthroat trout in stream settings make similar shifts in feeding behavior although they likely do shift toward larger prey sizes. Drifting macroinvertebrate prey items largely reflect the benthic population, so a change to larger food items by trout may not necessitate a shift in foraging location or behavior as it appears to do in more lentic settings. Baltz et al. (1991) and Baltz and Moyle (1984) identified an ontogenetic niche shift in rainbow trout that included changes in depth, focal elevation, and velocity. Older individuals used deeper, faster water, and were higher in the water column. L'Abee-Lund et al. (1993) found juvenile Arctic char shifted habitats from epibenthic to pelagic habitats with increasing size as a result of reduced susceptibility to predation and increased food demand.

Role of Competition in Generating a Size Habitat Diversity Relationship

Within a habitat unit, conventional intraspecific competition for food may play out as competition for space in stream salmonids (Chapman 1966). Salmonids generally establish and maintain territories if the food source is diffuse within a habitat unit, as in a riffle, or a dominance hierarchy if the food source is focused and dominant individuals are able to control access to the source, as in a pool (Chapman 1966). At extremely high densities, juvenile salmonids may switch to schooling behavior (Grant and Kramer 1990). Age 0 salmonids generally establish territories rather than hierarchies within a habitat unit (Grant and Kramer 1990). Territory size limits maximum population density of salmonids (Grant and Kramer 1990); however, territory size is flexible and may be smaller in more complex environments. Territory size is also influenced by intruder presence, food availability, depth, and water velocity, and increases with fish body size (Grant and Kramer 1990).

Complex habitats may provide more niches to accommodate individuals of different sizes within a cohort as well as enabling more fish to remain in a complex habitat unit than in a simpler unit of the same size. In sufficiently large or diverse habitat units, territories become habitat subunits where dominant individuals control territories and subordinate individuals may either "float" at territory margins within the subunit or emigrate in the hope of finding a better situation (Nielsen 1992). Cover in complex provides visual separation and may prevent dominant individuals from controlling food sources, and, complex units may be more likely to have diffuse sources of food since cover may create complex flow patterns entering or within the unit. With

the hierarchical arrangement, subdominant and floater individuals are found at the lower ends of units, where food is less available (Nielsen 1992).

Interspecific competition may also mediate an organism's relationship with its environment, and therefore the effect of habitat diversity on size variation. Multiple salmonid species typically occur together, and although species may be morphologically and behaviorally differentiated from each other (e.g. Griffith 1972; Bisson et al. 1988; Bugert and Bjornn 1991) and may prefer different habitats (e.g. Glova 1987; Dolloff and Reeves 1990), juveniles of more than one species may also occur in close proximity and share resources (Glova 1987). Habitat differentiation between salmonid species and co-occurring nonsalmonid species has also been demonstrated (e.g. Baltz and Moyle 1984; Glova 1987). Although salmonids typically feed from the water column whereas sculpins are bottom-feeders (Brusven and Rose 1981; Johnson et al. 1983), indirect competition between salmonids and sculpins has been suggested (e.g. Glova 1987) since consumption of benthic foods may reduce available drift (Brocksen et al. 1968) and drift may limit growth in small streams during low flow summer months (Mason 1976).

Predation-Mediated Size Habitat Diversity Relationship

Predation accounts for a major portion of mortality for early life stages of fish (Werner and Gilliam 1984). Cannibalism may be more common when few other fish species are present or food supplies are poor (Griffiths 1994), both common characteristics of age 0 westslope cutthroat trout habitat. Incidence of cannibalism is likely related to food stress; as food stress increases, foraging effort, prey encounter

rate, and prey susceptibility increase and prey base broadens, resulting in the greater take of conspecifics (Polis 1981). Westslope cutthroat trout (Lentz 1998) and shorthead sculpin (Horner 1978) are not primarily piscivorous. Griffith (1974) found westslope cutthroat trout and brook trout consumed few fish and that cannibalism and piscivory contributed little to their diet. Only 2.2% of 225 adult westslope cutthroat trout had fish in their stomachs in their study. Dippers (*Cinclus mexicanus*) are likely the most common avian predator on fish present in headwater streams in westslope cutthroat trout range; other avian predators may include e.g. kingfishers and herons. Dippers will take age 0 salmonids but likely account for only a small percentage of age 0 mortality under natural circumstances (Mitchell 1968; Thut 1970; Harvey and Marti 1993).

Predator effects on prey size structure can be direct (e.g. mortality) or indirect (e.g. change in prey habitat use, behavior; Rice et al. 1993). Indirect effects of habitat complexity on size variation through size-mediated predation and cannibalism may be less important than intraspecific competition for optimal niches and changing needs during ontogenetic niche shifts (Chapman 1966). It is much less likely that mortality is size-selective, especially to the extent that effects of predation on age 0 size structure would dominate other sources of size variation in age 0 salmonids. Paradis et al. (1999) conducted a modeling exercise examining effects of prey and predator size and abundance and timing of interaction, concluding that size-selective mortality is likely to be seen only when predation is heavy (greater than 50% of the prey population) or when it comes early within the period of potential predation (in the first 5 days of their simulation). Size selective mortality is not generally evidenced since although larger prey are more easily detectable, smaller prey are more susceptible, and the opposing

directions of size selectivity counteract each other. However, Rice et al. (1993) suggest that prey size structure is a function of predator size structure since larger predators prefer larger prey.

Effects of predation on the distribution of fishes by size among habitats may be substantial. Although predation is not commonly used to explain distribution of stream-dwelling salmonids relative to competition and energetic demands (Lonzarich and Quinn 1995), they found mortality of coho salmon, steelhead, cutthroat trout, and stickleback to be lower in experimental units with greater depth or cover. Even though predation may not affect size variation present within or among habitat units, predation may affect habitat use by age 0 salmonids. Lentz (1998) found age 0 cutthroat trout to move into slower water with more cover at night, presumably to avoid predation, and were not in areas where predators had access to them. Horner (1978) found that adult salmonids moved into lateral habitats favored at night to prey on age 0 individuals. Fausch (1993) found that rainbow trout parr chose experimental structures offering overhead cover, and therefore protection from terrestrial predators, over structures offering visual isolation or velocity refuge. Schlosser (1987) found that habitat use by small individuals of several species was mediated by the presence of a predator. With predators present, small fish were restricted to shallow riffles, where shallow water served as refugia from the larger predators. Small fish resided in pools only when complex structure was present whereas when predators were absent, small fish preferred pools with or without structural complexity. With predators present, niche overlap between large and small individuals was minimized but niche overlap, and therefore influence of competition, among small individuals was maximized. Without predators, small

individuals were able to separate into diverse habitats. Bugert et al. (1991) found that juvenile coho salmon, steelhead, and Dolly Varden selected lower positions within the water column in pools without cover than in pools with cover, suggesting an avian predator induced habitat shift, and Bugert and Bjornn (1991) in a laboratory setting found juvenile steelhead and coho salmon changed habitats in the presence of fish predators. Harvey and Stewart (1991) suggest that predator identity may mediate size-based habitat use; aquatic predators may be limited to small prey, focusing attention of larger prey on terrestrial predators and therefore deeper waters offering refuge from terrestrial predators. Small prey may be ignored by terrestrial predators and therefore may choose shallow water offering refuge from aquatic predators. Therefore, depth distribution of prey may be dependent on relative predation pressure from aquatic and terrestrial predators and on the size distribution of prey organisms. Harvey (1991) found that in the presence of predators, small fish moved to shallower water but larger prey did not.

However, Butler (1988) found the presence of smallmouth bass predators to have only a weak effect on bluegill prey foraging, abundance, or use of complex habitats. Prey did prefer complex habitats, however, regardless of predator presence possibly due to higher food abundance for the bluegill prey. He suggests that prey may not respond to predator presence in the field as dramatically as they do in laboratory studies since laboratory studies may maximize prey risk whereas under natural conditions, prey may be able to detect level of risk from predators' behavior or other cues.

Variables Driving Habitat Selection by Age 0 Salmonids

Age 0 salmonids are driven primarily by competition for food and therefore space (Mason and Chapman 1965; Chapman 1966), energetic profitability maximizing food delivery while minimizing energetic expenditures (Fausch 1984), and vulnerability to predators (Power 1987; Harvey 1991; Fausch 1993). Fausch (1993) suggests that juvenile salmonids choose habitat structures relative to the tradeoffs they represent among foraging efficiency, intraspecific competition, and predation risk. Numerous habitat characteristics affect one or more of these primary factors. Focal velocity, presence and distance from cover, and depth may be the most important factors controlling size-related habitat use (Chapman 1966; Everest and Chapman 1972; Griffith 1972; Nielsen 1992). Moore and Gregory (1988) found age 0 coastal cutthroat trout abundance to be greatest in habitats with low velocity shallow water with abundant detritus and benthic invertebrates and open canopies. Fausch (1993) provided rainbow trout parr with structures having overhead cover, velocity refuge, and visual isolation from other individuals and found that structures with overhead cover alone or all three cover components were chosen more than units without overhead cover, and that parr also chose structures closest to the swiftest velocities available or near natural cover. He concluded that cover may provide different functions under different conditions. In high gradient turbulent waters, velocity refuge may be more important than overhead cover whereas e.g. in runs, overhead cover providing refuge from terrestrial predators may be most important.

Use of water depth by small fish requires balancing benefits of cover from avian predators, where deeper water provides refuge, and aquatic predators, where shallower

water provides refuge (Power 1987; Harvey and Stewart 1991), with size-selective predation that is function of both prey and predator size structure (Schlosser 1987; Rice et al. 1993). Lonzarich and Quinn (1995) found depth to be more important than structure in determining distribution of coho salmon in artificial channels, but concluded that both are important to small fish for predator avoidance. Harvey and Stewart (1991) found prey use of depth as cover from predators to be mediated by relative presence of aquatic versus terrestrial predators, size structures of predators and prey, and other physical habitat characteristics such as light and turbulence.

Low light levels may in some situations serve as cover for prey. L'Abee-Lund et al. (1993) found juvenile Arctic char to take refuge in the pelagic zone of five Norwegian lakes, using darkness as cover from predators. Similarly, Helfman (1981) found fish in shade were more able to see approaching objects and at the same time were more difficult for predators to detect, and Shirvell (1990) found steelhead parr chose habitats that had low light levels. However, Moore and Gregory (1988) suggest that in heavily shaded stream sections, low light may limit age 0 salmonid ability to locate and capture prey.

Salmonid fry generally have substrate size preferences since substrates provide different levels of food and cover. Cutthroat trout fry in an Oregon stream preferred substrates with mixed sizes or complex surfaces such as gravel and cobble and tended to avoid smooth surfaces such as bedrock or sand/silt (Moore and Gregory 1988). Griffith (1972) found age 0 westslope cutthroat trout used interstitial spaces in cobble for refuge from predators but otherwise demonstrated no clear preference regarding substrate. Lentz (1998) found age 0 westslope cutthroat trout to generally prefer

smaller substrates, but were most abundant in side channels with cobble substrates. Shirvell and Dungey (1983) found choice of substrate size to increase with increasing fish size between age classes but did not find a similar relationship within the age 0 cohort.

Units containing or created by organic material such as large woody debris may provide more aquatic and terrestrial food than units comprised or created primarily by boulders or other rocky materials (Nielsen 1992). However, Lentz (1998) found that age 0 cutthroat trout displayed no preference for habitats created by large woody debris versus boulders, using habitats in proportion to their availability. Temperature differences were not found between isolated habitat units and those adjacent to the main flow in shaded reaches whereas in open reaches isolated habitat units tended to be cooler than units adjacent to the main flow (Moore and Gregory 1988). Open canopy units may be more productive and therefore support or generate larger individuals (Moore and Gregory 1988)

Unit area and shape may also correlate with fish characteristics. A larger area may provide a larger range of habitat configurations and food resources, and therefore more potential niches (Angermeier and Schlosser 1989). Unit length may affect size and number of fish supported by a given habitat unit, since dominant fish in salmonid hierarchical dominance structures are found at the head of pools, with subdominant individuals progressively further downstream within pools (Nielsen 1992). In addition to potentially providing opportunity for more different habitats, larger units may also provide more territories and more diverse fish sizes (Grant and Kramer 1990). Lentz (1998) found that age 0 cutthroat trout did not use habitat units smaller than a threshold

size, and also found smaller sized juvenile salmonids to be closer to stream banks than larger individuals, particularly at night, suggesting that smaller individuals were more vulnerable to the increased predation threat in lower light and that it was more important for them to seek lower water velocities when they were not able to feed. Griffith (1972) and Moore and Gregory (1988) also found westslope cutthroat trout distance from cover including stream banks to increase with increasing size.

Concepts of Habitat Diversity in Lotic Systems

Relationships between organisms and the structure of their habitat have been widely studied yet simple fundamental relationships remain elusive. The American Heritage Dictionary (2000) defines complex as "composed of *interconnected* parts" or "characterized by a very complicated or involved arrangement of parts or units." Usage in landscape ecology includes Turner et al.'s (2001) definition of complexity as "having many independent components." In contrast, in the freshwater ecology literature, Bisson et al. (1981) define complexity as the distribution and abundance of habitat types and their connectivity, which can be considered at multiple spatial scales.

McCoy and Bell (1991) in their review of habitat structure in the ecological literature conclude that lack of broad understanding of how organisms relate to their physical environment may be due to the lack of species- or system-specific terminology, making it difficult for ecologists to find common patterns across systems and scales. They suggest that use of three axes of habitat structure, complexity, heterogeneity, and scale, may facilitate communication and study across ecological systems. They define heterogeneity as the "variation attributable to the relative abundance...of different structural components" and complexity as the "absolute abundance...of individual

structural components." These concepts appear analogous to evenness and richness concepts used in study of species diversity (Meffe and Carroll 1994). However, one habitat characteristic which appears not to be accommodated in their concept of habitat structure is the variation contained within an individual habitat characteristic, since many habitat variables (e.g. depth, water velocity) are continuous rather than discrete variables.

Within the freshwater ecology literature, chaos reigns as well: the terms heterogeneity, complexity, diversity as well as others are used, often interchangeably and with various modifiers including habitat, structural, and architectural as well as use of alternate terms such as cover and refuge. Kinsolving and Bain (1990) develop conceptual components of fish habitat for shallow water habitat, incorporating concepts of density, complexity, and heterogeneity. They describe methods for quantifying cover surface planes in three dimensions, defining complexity as the average number of non-zero planes within the unit (a measure of surface convolution of the unit), heterogeneity as the variation in number of planes between transects within a unit (variation in surface convolution), and density as the total number of planes present within the unit. Downes et al. (1998) apply McCoy and Bell's (1991) scheme to headwater streams, distinguishing between habitat complexity, the absolute quantity of one type of structure, and habitat heterogeneity, a measure of different structure sources.

"Habitat complexity" has been used to address a wide variety of concepts and definitions in aquatic ecology, most relating to physical habitat structural characteristics, including application to individual habitat characteristics, functions served by habitat (e.g. velocity or predator refuge), combinations of habitat variables selected with

relevance to specific species or communities, indices of habitat diversity, and 2- or 3-dimensional structural properties such as rugosity or fractal dimension.

Most commonly, habitat complexity is used as a logistic term referring to the presence or absence of physical structure for predator refuge, velocity refuge, or visual isolation. In stream systems, large woody debris cover has been either quantified or presence or absence has been determined. Tschaplinski and Hartman (1983) use to term to refer to the amount and configuration of large woody debris and Roni and Quinn (2001) defined complex channels as those in which large woody debris had been placed in an experimental setting. Spalding et al. (1995) defined complexity as the density of brushy debris, using Christmas trees of varying branch densities to explore response of juvenile coho salmon. Pearsons et al. (1992) used channel complexity to refer to the extent of hydraulic retention, relating retention to species diversity and abundance after flooding.

In lentic systems, habitat complexity is often used to describe presence/absence or density of vegetation stems. Gotceitas and Colgan (1989) include a review of the literature, citing 26 additional studies, 9 in freshwater, in which cover is characterized by: plant stem density, macrophyte biomass, gravel, plastic brushes, stones, dry algae, bricks, wooden dowels, wood litter, or plastic screening of different mesh sizes. Other examples include Sredl and Collins (1992), who added varying quantities of wheat straw in lotic enclosures, forming partially sunken complexes of 3-dimensional habitat for tadpole prey, and Basquill and Grant (1998), who used presence/absence of strips of artificial vegetation to explore intraspecific competitive interactions in zebra fish (*Danio rerio*).

Multiple variables have been examined or combined into indices of habitat complexity. Gorman and Karr (1978) and Angermeier and Schlosser (1989) used the term to refer to a combination of depth, velocity, and substrate characteristics. They broke each variable into 4-6 classes, forming a potential of 120 unique combinations, and calculated a Shannon-Wiener diversity index for each sample site. Fausch and Bramblett (1991) defined complex pools as those deeper than one meter with coarse substrate and cover. Lonzarich and Quinn (1995) defined complexity as a combination of depth and cover, using small saplings as cover in experimental treatments. McMahon and Hartman (1989) explored the importance of cover, shade, and velocity refuge separately and in combination to juvenile coho salmon using vertical and horizontal sheets of plywood and simulated root wads. In laboratory experiments, Fausch (1993) explored cover complexity by testing steelhead parr with combinations of visual isolation, overhead cover, and velocity refuge individually and in combination.

Although most studies have applied the term habitat complexity to ecological relationships within a habitat unit, larger scale relationships have also been explored. Moore and Gregory (1989) characterized fish habitat at the stream channel unit scale defining a highly complex unit as having high subunit richness and evenness (at least four subunit types represented, each accounting for at least 15% of the unit area) and a low complexity unit as having more than 70% comprised of one subunit type. Merigoux and Ponton (1999) studied relationships between fish density and habitat complexity between stream sections, defining complexity as the variety of litter, substrate, and vegetation conditions available at a site.

Issues of Spatial Scale

Aquatic processes and biotic diversity may occur across multiple spatial scales in response to environmental gradients at different scales (Morris 1987; O'Neill et al. 1988; Carlile et al. 1989; Taylor 1991; Healey and Prince 1995; Rabeni and Sowa 1996; Cooper et al. 1998). Habitat diversity available to a specific group of individuals may be distributed within or between habitat units. Moore and Gregory (1988) identified four lateral stream habitat types with characteristics required by age 0 cutthroat trout, isolated pools, stream margins, side channels, and backwaters. Differences among unit types such as these or the relative distribution of unit types between reaches or streams may affect size variation within a reach as well as within a habitat unit.

Instream habitat and water quality conditions reflect landscape characteristics at multiple scales within a drainage. Valley constraint affects the physical and hydrological characteristics of stream channels. Unconstrained reaches are "response segments," experiencing significant morphological response to changes in sediment supply form upstream, whereas constrained reaches are "transport segments" that are morphologically resilient, rapidly conveying sediment to downstream reaches (Montgomery and Buffington 1997). Wide valley floors therefore tend to reflect fluvial processes whereas narrow, high gradient streams reflect both fluvial processes and landforms external to the channel such as landslides, debris flows, and bedrock outcrops (Grant and Swanson 1995). Unconstrained channels are more likely to have secondary channels (Grant and Swanson 1995; Rot et al. 2000) and to contain higher volumes of large woody debris (Rot et al. 2000). Lamberti et al. (1989) found unconstrained reaches retained leaves and dissolved nutrients longer, defining

constrained reaches as less than three and unconstrained reaches as more than four times the active channel width. They identified heterogeneity in stream hydraulics, diversity of riparian vegetation, geomorphic complexity, and presence of woody debris and lateral habitats as factors increasing organic material retention in unconstrained reaches. Unconstrained reaches also had two to three times more channel units, due partly to the greater frequency of side channels, and also had greater discharge, possibly a function of greater groundwater influence. Unconstrained reaches include more eddies, backwaters, and side channels, providing more lateral refuge during floods and a greater diversity of fish habitats (Gregory et al. 1989).

Valley constraint therefore influences fish through effects on habitat. Moore and Gregory (1988) found age 0 cutthroat trout abundance and density to be greater in unconstrained than constrained reaches, linking abundance to habitat structure characteristics such as riparian canopy and channel morphology, concluding that these habitat characteristics affected nutrient availability and retention. They described constrained reaches in their study as straighter with single channels and little lateral heterogeneity, and unconstrained reaches as complex, braided channels with extensive floodplains. Unconstrained reaches had more complex unit and subunit structure, shorter habitat units, more varied unit type sequences, greater area of lateral and refuge habitat, and a greater diversity of habitat types. Gregory et al. (1989) and Lentz (1998) also found greater trout fry abundance in unconstrained reaches. Lentz (1998) concluded that side channels were important age 0 cutthroat trout habitat since they increased total amount of habitat available, provided additional shallow habitat from

which predators were excluded, and were warmer than main channel habitats such that swimming ability was increased and growth was enhanced.

Why a Size Habitat Diversity Relationship might not be seen

Conditions could occur in which an association between habitat diversity and size variation may not be seen. In reaches or units where age 0 fish density is sufficiently low, habitats may be under-occupied such that individual fish may occupy large or diverse habitat units (Lonzarich and Quinn 1995). Within a reach, some high density units may match while other lower density units may not. If fish are unable to emigrate, or densities are extremely high, individuals may not be able to successfully seek improved conditions with increasing body size. In this case, matching could occur but over-occupation of units, with high densities within units, stunting, or occupation of all units by larger individuals may result. Insufficient size variation may be present within a reach, for a relationship to be seen. Factors at broader spatial scales, such as temperature, may be controlling size diversification (McGrath et al. in preparation, see Appendix II), or sampling may have been conducted early in the first year, before sufficient size diversification has occurred. In an individual unit, occupants may not match conditions if occupancy is in transition as larger or subdominant individuals immigrate or emigrate. In this case a size habitat relationship may still be seen at the reach scale and within other units within the reach.

APPROACH

Defining habitat characteristics important to an organism can be difficult, and a more productive means of identifying important characteristics may be to use a

backwards approach: to let the distribution of individuals lead us to testable hypotheses about habitat structure and use (Bell et al. 1991). Although microhabitat use by juvenile stream salmonids has been documented as summarized in the introduction, less is known about size variation habitat relationships. In this study we hypothesized that certain habitat variables would be important to size and size variation based on existing literature, but used Bell's approach of letting the organism tell us what is important as well.

Our study explores habitat size relationships using all three of McCoy and Bell's (1991) structural habitat components. Complexity best applies to the range of variation in individual habitat characteristics within and between habitat units and therefore explored at the unit and reach scale, heterogeneity best applies to individual units at a the reach scale, and both characteristics are explored at the stream scale. The objectives of our study were to identify habitat variables important in the generation or support of size variation at three spatial scales, between streams (differing in valley width), within stream reaches, and within individual habitat units, and to compare and contrast habitat variables across the three spatial scales.

STUDY AREA

The study was conducted in the Coeur d' Alene (CDA) River basin of northern Idaho, U.S.A. (Figure 1), a region of low mountains vegetated by coniferous forest dominated primarily by Douglas fir, cedar, and hemlock tree species (Bailey 1995). Elevation ranges from 600 to 1850m. Climate includes severe winters of heavy snowfall, rain-on-snow events, and rainfall of 0.5-1.0m (20-40inches)/year. Geology is

dominated by Precambrian Belt sedimentary rock likely containing basalt sills and granite sheets (Alt and Hyndman 1989). The majority of the basin is owned by the federal government and managed by the U.S. Department of Agriculture Forest Service. Logging and mining in the basin began in the mid-1800s (Maclay 1940); logging is the predominant land use today. Most drainages have been moderately to heavily impacted by road construction and timber harvest during the past 50 years. Study streams are second- or third-order, moderate-gradient (2-5%), with moderately to highly embedded gravel or cobble substrate and high water quality.

Fish fauna of study streams are limited to native westslope cutthroat trout, torrent sculpin (*Cottus rhotheus*), and shorthead sculpin (*Cottus confusus*) and non-native rainbow trout (*Oncorhynchus mykiss*). Bull trout are native to the system but are believed to be extirpated. Anadromous species do not have access to this system due to migration barriers below Lake Coeur d' Alene. Westslope cutthroat trout abundance has been depressed in some streams in the study area due to historic overharvest and habitat degradation (Dunnigan 1997); N. Horner, ID Department of Fish and Game, personal communication).

METHODS

We selected three constrained and three unconstrained stream reaches for study (Figure 1). However, during the study we concluded that one of our wide valley streams, Halsey Creek, contains an unusual bench in our study reach that functionally prevents channel movement across most of the valley in this area. For this reason, we excluded this stream from all valley width analyses. For four of six streams, the selected reach used was the lowermost section immediately above the confluence with

its receiving stream. For the other two sites, reaches were selected higher in the watershed; in all cases reaches were selected such that watershed area above the study reach was similar among the six streams. To characterize differences between streams and valleys, five transects per reach were paced and valley floor width, active channel width, wetted width, and maximum depth were measured, presence of side channels was noted, and side channel wetted width and maximum depth were measured. We used the valley floor width index of Grant and Swanson (1995), the ratio of the width of ~ the Holocene valley floor (at 3 meters above the low flow water surface) to the active channel width to characterize channel constraint.

Fish collection: Within a study reach, age 0 habitat units were sampled using a backpack electrofisher, beginning at the lower end and proceeding upstream, sampling all potential age 0 habitat (Lentz 1998). Sampling was continued until 40 habitat units in 2000 and 30 habitat units in 2001 had been located. When an age 0 individual was located either visually or by electrofishing, habitat unit boundaries were determined, defined as the water's edge along the shoreline, emergent rocky or woody substrate, or a line of water velocity against which age 0 fish would be unable to maintain position and would therefore be displaced downstream from the unit. Within the habitat unit, all westslope cutthroat trout were collected and lengths were recorded, and habitat characteristics as described below were measured or recorded. All cutthroat trout seen, whether they were in an age 0 habitat unit or not, were collected during electrofishing to define the size structure of the population and the upper limit of age 0 length.

Habitat characterization: For each habitat unit, habitat characteristics potentially affecting age 0 size variation within the unit were recorded (Table 1). For each categorical variable, calls were made independently by two researchers and disagreements were negotiated until agreement could be reached. Cover was considered woody debris or substrate under and at the water's surface that provided refuge from terrestrial and aquatic predators; cover was considered present if the majority of the unit contained cover and partial if less than half of the unit contained cover. Canopy cover was considered open if by aspect and canopy the unit would receive full sun for most or all of the day, partial if it would receive full sun for part of the day, and closed if it would never receive sun (when leaves were present in the case of units shadowed by deciduous vegetation). Units were considered to have full predator access if an aquatic predator was judged to have access to the majority of the unit, limited if more than half the unit was not available to predators, and none if the majority of the unit could not be reached by predators. Habitats were categorized by type based on location within the stream (Figure 2). Most types were classified and described prior to fieldwork based on an elaboration of the types described by Moore and Gregory (1988); additional types were recognized in the field and added to the potential list as they were identified during data collection. Unit source was described as due to bedrock/boulder, large woody debris, or scour, where scour referred to an underwater obstruction formed by the shape of the streambed such that an eddy of slow water was created downstream. If the unit was created by more than one material or process, the most important influence was recorded. Dominant substrate was the size of substrate composing the highest percentage of the unit habitat area. Overall habitat diversity of

each unit was described as diverse or uniform based on the variation in depth, water velocity, and cover present in the unit. During electrofishing for westslope cutthroat trout, presence or absence of sculpins was noted.

Unit width and length were measured, and unit area was calculated for each unit. Six measurements of depth from randomly chosen locations were taken for each unit, and the average and coefficient of variation of depth was calculated per unit. Unit maximum depth was also located and measured. We obtained these three depth measurements because we hypothesized that coefficient of variation of depth would relate to age 0 size diversity at the unit (within unit) scale, maximum depth would relate to predation probability and therefore fish size at the reach (among units) scale, and average depth would relate to a potential ontogenetic niche shift to deeper water and therefore fish size at the reach (among units) scale.

Number of age 0 fish per unit and age 0 density were also included as covariates in unit analyses since they may mediate habitat use.

<u>Analysis</u>:

The upper length limit of age 0 individuals was determined from length frequency histograms within stream and year, with confirmation by otolith analyses as reported in (McGrath et al. in preparation, see Appendix II).

Categorical variables were analyzed using modified chi-square tests. We conducted three sets of analyses: habitat units in narrow versus wide stream reaches, units containing large versus small age 0 individuals, and units containing heterogeneous versus homogeneous sizes of age 0 fish. In each set of analyses, we treated one side of the contrasting pair as observed frequencies and the other side as

expected frequencies to conduct one-way chi square tests. For tests between habitat units occupied by small or large fish, fish sizes were defined by apportioning fish to small, medium, or large categories within stream and within year, where size categories (bins) contained equal size ranges. Ranges were therefore different between years and streams, depending on the total range of sizes collected per year or stream. Average fish sizes per stream and size category are summarized in Table 8. Only units containing all small or all large fish were used in these tests. For tests between units containing heterogeneous or homogeneous fish sizes, definitions of fish size as described above were used to classify each unit. Only units containing only one size (all small, all medium, or all large; homogeneous) or large and small fish in any combination (heterogeneous) were used in analyses. Coefficient of variation of fish size per stream and size variation category are summarized in Table 11.

Although authors disagree on definition and treatment of low cell counts, most agree that chi square statistics are inflated for cell counts lower than five (see Ott 1984 and references therein). We encountered low cell counts for several habitat variables, most commonly dominant substrate and unit type. For substrate, we combined the categories sand, silt, and organic material into one category (SaSiOrg) and combined bedrock and claypan into the boulder category. In other cases where combining categories was not possible, we circumvented the low cell count problem by artificially increasing the cell unit counts for both treatments when either cell count was problemmatic. Inflated chi square statistics were therefore avoided but comparisons within treatment were not possible. For example, when testing for habitat differences due to valley width, we increased cell counts by five for the boulder category of

substrate for both narrow and wide valleys, since the boulder dominated unit count for wide valleys was low. The chi square test for differences due to valley width produces a less inflated chi square statistic, but examination of substrate use by age 0 trout within valley width is no longer legitimate since relative proportions of substrates have been altered. Variables for which the modified chi square procedure was used are indicated in results tables (tables 3, 6, 9).

Continuous variables were analyzed using the general linear model of analysis of variance (ANOVA) in SAS (SAS Institute, Inc., Release 6.12 TS060, Copyright 1989-96). A significance level of $p<0.10$ was used in all comparisons. When possible, year of sampling, stream identity, and all interaction terms were included as covariates in all analyses.The variable stream was not included in analyses of valley width due to insufficient degrees of freedom.

RESULTS

Associated with valley width, streams with wide valleys tended to have lower channel slopes and higher sinuosity (Table 2). All study streams were similar in size, but narrow valleys tended to be lower in elevation and have slightly higher conductivies, characteristics linked to greater age 0 size and size variation (McGrath et al. in preparation, see Appendix II). Narrow valley streams also tended to have wider wetted channel widths. Differences in maximum depth and number of side channels were not observed.

Valley Width Relationships with Habitat and Fish Size

Several continuous variables differed between sampling years (Table 4), including unit length, area, average depth, age 0 coefficient of variation of length, and number of fish per unit. Although many unit and fish characteristics were different between streams in narrow and wide valley widths (see below), several variables had significant interactions between valley width and year of sampling, as well.

Categorical habitat variables differing between narrow and wide valleys included unit source, type, substrate, presence of sculpins, and refuge cover (Table 3). Streams in narrow valleys tended to have more units created by boulders (76.6%) whereas streams in wider valleys tended to have more units created by woody debris (56.1%) or scour (33.1%; Figure 3). Streams in both narrow and wide valleys tended to be dominated by the lateral habitat type (33.3%, 41.8%, respectively; Figure 4). However, the only other significant habitat types in narrow valleys were partially isolated pools (46.3%) and shallow water riffles (9.0%) whereas wide valleys contained partially isolated pools (15.6%), shallow water riffles (16.3%), and channel-wide pools (11.3). Habitat units were of more diverse types in wide valley streams whereas narrow valley streams were dominated by two types. Habitat units in narrow valley streams had larger dominant substrates than did units in wide valley streams (Figure 5), and had a higher percentage of units that did not contain sculpins (Figure 6). Narrow valley streams had a higher percentage of units with no refuge cover and a lower percentage of units with full cover (Figure 7).

The continuous unit habitat variable, unit width was also significantly different between narrow and wide valleys (Table 4). Units in narrow valleys tended to be

narrower (Table 5). Although several of the remaining continuous habitat variables were signficantly different between valley widths, the direction of those differences was inconsistent between years of sampling (valley width X year interaction). An analyses exploring differences due to stream within valley width revealed that the unit dimension variables (length, width, area) differed significantly among narrow streams but not wide streams (N=201, width: $p<0.02$, length: $p<0.0001$, area: $p<0.0001$), and that maximum depth differed between the two wide streams (N=140, $p<0.08$) but not among the narrow streams.

Only one age 0 variable, fish density, differed between narrow and wide valleys during both years of sampling (Table 5). Units in narrow valley streams had higher densities than did units in wider valley streams. Average fish length was not different due to valley width during either year, and coefficient of variation of length and number of fish were significantly different between valley widths but were inconsistent between the two years of sampling (a significant valley width X year interaction). Average length, number of fish per unit, and fish density were all different among streams in narrow valleys (N=201, $p<0.0001$, $p<0.07$, $p<0.01$, respectively); however, number of fish was inconsistent between years of sampling. Between wide streams, average fish length, number of fish, and coefficient of variation of fish length were significantly different (N=140, $p<0.02$, $p<0.06$, $p<0.06$, respectively); however, all three variables were inconsistent between years of sampling.

<u>Fish Size - Habitat Relationships</u>

Categorical habitat variables occupied by large and small fish that differed due to fish size included unit source, dominant substrate, predator access, and habitat diversity

(Table 6). Units occupied by small fish were created more by scour (26.2%) and less by boulder (44.3%) than units occupied by large fish (14.8%, 52.2%, respectively; Figure 8). Units occupied by small fish tended to be of smaller substrates than those occupied by large fish (Figure 9) and a higher percentage of small fish units were uniform (68.8%) than were large fish units (50.4%; Figure 10). Units occupied by small fish were also more likely to have limited predator access (68.9%) than large fish (57.4%) and less likely to have complete predator access (29.5%) than large fish (39.1%; Figure 11). Other categorical habitat variables did not differ between units occupied by small and large fish.

Habitat units occupied by large and small fish also differed in width and average depth (Table 7). Units occupied by large fish tended to be wider and deeper than units occupied by smaller fish (Table 8). Unit maximum depth also differed between units occupied by large and small fish, but were inconsistent across streams (size X stream interaction). Maximum depth of units occupied by large fish was greater than that of units occupied by small fish in all streams except Iron Creek. This creek deviated from all other streams habitat unit length and area, as well; units occupied by large fish were larger and longer than those occupied by small fish in all streams except Iron Creek. Fish density was significantly higher ($p<0.07$) in units occupied only by small fish; however, the three-way interaction between fish size, year of sampling, and stream was also significant ($p<0.002$).

Fish Size Variation - Habitat Relationships

The categorical variables habitat unit source, canopy cover, predator access, and substrate differed significantly between units containing heterogeneous and homogeneous age 0 sizes (Table 9). Fewer units with heterogeneous sizes were created by boulders (37.2%) or woody debris (32.6%) and more units created by scour (30.2%) than were units with homogeneous sizes (43.6%, 41.0%, 15.4%, respectively; Figure 12). More heterogeneous units had open canopy cover (30.2%) and fewer partially open canopy cover (60.5%) than homogeneous units (10.3%, 82.0%, respectively; Figure 13). No heterogeneous units (0.0% versus 5.1%) had no access to predators, and fewer with complete predator access (20.9% versus 43.6%) than homogeneous units, whereas homogeneous units had fewer units with limited predator access (51.3% versus 79.1%; Figure 14). More heterogeneous units had larger dominant substrates (boulder, cobble) or sand/silt/organic material, whereas more homogeneous units were gravel or peagravel dominated (Figure 15). No other categorical variables were significantly different between units containing heterogeneous and homogeneous age 0 sizes.

The habitat unit dimension variables length and area were significantly different between units occupied by heterogeneous and homogeneous age 0 sizes (Table 10), with units occupied by heterogeneous sizes being longer and larger (Table 11). Unit width was also significantly different between heterogeneous and homogeneous units. Although differences were inconsistent across years and streams (ANOVA interaction terms with Year and Year*Stream were significant), units were wider in heterogeneous units than homogeneous units during both years and all streams. Number of fish per

unit was also significantly different; heterogeneous units had significantly more fish per unit.

Comparisons across Scales

Several variables were important to size variation in age 0 cutthroat trout at all three spatial scales investigated (Table 12). Unit source, substrate, and width were significantly different at the stream scale between valley widths, large and small fish between habitat units, and within units containing heterogeneous and homogeneous fish sizes. Access to predators was significantly different at the between and within unit scales. Other habitat characteristics were significant at only one scale.

DISCUSSION

Considerable size variation was evidenced in this study between sampling years, most likely due to differences in date of sampling; sampling during 2000 was conducted approximately 8 weeks later than during 2001. When sampling time was accounted for, we found size variation in age 0 westslope cutthroat trout did not vary between years (McGrath et al. in preparation, see Appendix II). Size variation increases throughout the first summer, likely a result of staggered emergence timing, differential productivity at microscales, and competition favoring larger individuals. Earlier sampling during 2001, and therefore reduced size variation, likely made elucidation of size - habitat relationships more difficult in this study. Average fish size was significantly different between years, likely also a result of earlier sampling in 2001. Number of fish per unit may also be a result of earlier sampling, since we found age 0 density of small fish to be greater than large fish in five of six study streams.

We saw an age 0 relationship with depth between large and small fish among habitat units, as we predicted. Habitat units that are too deep or too shallow appear not to be preferred by age 0 salmonids; too deep allows for access and movement of aquatic predators whereas too shallow allows for avian predators (Harvey and Stewart 1991; Harvey 1991) and may be associated with low flows that provide insufficient food delivery for larger fish. Larger fish need greater flow for food delivery and are more able to tolerate faster flow (Mason and Chapman 1965; Huntingford and de Leaniz 1997; Lentz 1998), and are less vulnerable to predation in deeper water (Harvey and Stewart 1991). When able to move, fish may be required to leave shallower units when food becomes insufficient. Smaller fish are sustained in shallower unts, but may move later as they grow. Intraspecific competition may also partially explain the observed relationship. Larger deeper units may be more diverse and could be considered higher quality habitat. Larger individuals in deeper units may exclude smaller individuals, contributing to the observed pattern. Since most units sampled had at least some cover, it seems unlikely that predation on larger fish in shallow pools explains the size depth relationship, nor does stunting of fish in shallow pools seem to be the most likely explanation, since age 0 salmonids are capable of considerable mobility (Kahler 1999) and will redistribute within a stream reach to reduce density and gain more profitable territories (Mikheev et al. 1994), and during sampling we located many unoccupied but apparently suitable habitat units.

However, we did not see the relationships we hypothesized between fish size variation and depth variation or between fish size and maximum depth. The depths of many habitat units were relatively smoothly graded from the maximum at either the

center of the unit or along the eddy line to the water's edge. The maximum depth represented a very small proportion of the total unit area and was generally not much deeper than much of the rest of the unit, with a shallow band around the perimeter of the unit. Most units had at least some cover; therefore, depth may not have offered significant additional refuge cover from predators. Although we expected to see more heterogeneous sizes of fish in units with more diverse habitat, depth diversity was apparently not a meaningful source of habitat diversity in our study. If density were limiting resource availability, one would expect efficient "packing" of habitat units with larger fish at greater depths within a unit (Grant and Kramer 1990), and the hypothesized size depth diversity relationship, unless habitat characteristics other than depth were limiting. If density were not limiting, individuals would not be pressured into using their environment efficiently, and a relationship between size and depth diversity would not be expected. We suspect that to some degree both conditions occurred in our study streams. Some units were not utilized at all, some units had very few fish such that habitat may not have been limited by density, and some units contained many individuals. Although age 0 fish can be highly mobile (e.g. Kahler 1999), leaving a unit can carry significant risk of exposure to predators, harsh environments, or failure to locate beter habitat (e.g. Schlosser 1987; Paradis et al. 1999; Roni and Quinn 2001). Therefore, habitat may be limiting in some units due to high density, but depth was not the limiting factor, and density may have been suffiiciently low in other units such that individuals were not restricted to particular depths.

Density was significantly higher in units containing small fish than in units containing large fish, suggesting that growth may be density-dependent (Grant and

Kramer 1990). However, we suggest the alternative explanation that densities are higher in units occupied by smaller fish because they have smaller territories (Grant and Kramer 1990) and may therefore occupy smaller units. As discussed previously, age 0 salmonids have been shown to be highly mobile (Kahler 1999), and we found numerous empty and apparently adequate habitat units. We suspect that production in our study streams is relatively low, habitat is underutilized, and redistribution between units limits density. We also did not see a relationship between size heterogeneity and density, counter to the findings of Chandler and Bjornn (1988). They found in a laboratory study that age 0 salmonids would occur at higher densities in heterogeneous size mixtures than in homogeneous size mixtures. Their findings may only be observed at relatively high densities, as are often the case in laboratory studies and which we did not generally observe.

Unit dimensions appear to affect size distribution of age 0 fish both within and between habitat units. Larger individuals were more likely to be in wider units, supporting others authors' findings that fish move away from cover and into faster flows as they grow (Griffith 1972; Moore and Gregory 1988; Nielsen 1992). However, Dolloff and Reeves (1990) found that distance from cover of age 0 and age 1 coho salmon and Dolly Varden (*Salvelinus malma*) decreased with fish size, counter to this pattern. Distance from the water's edge may not be meaningfully considered without consideration of extent and location of refuge cover. The relationships we found between unit width, length, and area and size heterogeneity may be explained by territoriality patterns of stream salmonids including juveniles. As fish grow, they require larger territories (area effect; Grant and Kramer 1990) and their place in a hierarchy

changes with larger fish garnering higher quality habitats at the head of a habitat unit (Schlosser 1987; Nielsen 1992). Therefore units containing larger individuals (all heterogeneous units) might be expected to be larger, wider, and longer than units containing only one size. In homogeneous units, those containing only large fish were averaged with units containing smaller fish, obscuring a relationship between large fish and larger units in the homogeneous unit samples. Longer units may allow for more territories with lower quality units further downstream, since visual isolation contributes to establishment of territory boundaries (Dolloff 1986; Fausch 1993) and lower locations within a unit may receive less flow and delayed access to drift organisms than locations at the head of unit. Therefore, heterogeneous units might be expected to be longer than homogeneous units.

There may be several potential explanations for the relationships we observed between unit source and size and size diversity. Rosenfeld et al. (2000) found pool habitats formed by large woody debris to be somewhat deeper than those created by boulders or other sources, suggesting that source is important due to a correlation with depth, as discussed above. We found larger fish to be more associated with wood and boulder units than scour units, suggesting that they may either choose, control, or require "better" units, in terms of depth and food supply. Source and substrate may also be correlated, since both were significant at both reach and unit scales. Larger substrates tend to provide more food and more diverse food resources and cover for larger individuals than smaller substrates such as gravel and pea gravel (Moore and Gregory 1988). However, Wilzbach (1985) suggests that larger substrates such as cobble provide greater refuge cover for prey, and therefore may be more difficult for fish

to feed from. Also, Nielsen (1992) found that habitat units formed by wood were more productive for trout, since macroinvertebrate prey utilize woody debris for food.

As we expected, several habitat unit characteristics differed between wide and narrow valleys. Physical, hydrodynamic, and land use differences between narrow and wide valleys produce stream reaches with different characteristics, which in turn affect instream conditions including fish habitats (Moore and Gregory 1988; Gregory et al. 1989; Lentz 1998). Differences in unit source are logical: lower gradient valleys and stream channels are "response segments" that retain finer substrate materials. Therefore large woody debris would be expected to be more important in these channels rather than large substrate materials such as boulders and rubble, which are important to the "transport segments" of narrower valleys (Montgomery and Buffington 1997; Rot et al. 2000). Substrate, sculpin, and maximum depth differences observed in this study can also be explained by these differences: smaller dominant substrates were more common in wide valley units than in narrow valley units, sculpins are able to inhabitat lower water velocities characteristic of lower gradient streams since they are benthic rather than drift feeders (Daniels 1987), and smaller substrates and units formed by wood rather than boulder allow for increased vertical scouring and therefore higher maximum depths. We found unit types to be more diverse in wider channels, partially because these channels had two types not seen in narrower valleys: channel-wide pools and slow water riffles. These two habitat types were characteristic of lower gradient, slower waters, such that age 0 individuals were able to utilize the entire channel. Distribution of units between types was more even in wider valleys, suggesting somewhat greater habitat diversity overall in wider valleys. Unit width

differences between wide and narrow valleys may also be explained by the occurrence of channel-wide units in wider valleys, as well.

Maintenance of size varation in age 0 trout may require attention to processes generating habitat diversity among streams and habitat units and as well as within units. We identified habitat factors associated with size variation at all three scales examined in this study. Wide valley channels appear to provide greater habitat variation through their interaction with the floodplain and the ability of age 0 individuals to use the entire channel in lower gradient reaches of these streams. Therefore, management at broad scales should consider landform when establishing conservation and managment priorities. We also found important habitat diversity within and among habitat units within a stream reach differing in habitat characteristics such as average depth, substrate, unit source, and unit dimensions. Processes and sources of habitat diversity at these finer scales must therefore be identified and maintained. Complex habitats at multiple scales have been demonstrated to be essential to diversification of life history and other phenotypic characteristics, as well as affecting intraspecific and interspecific competitive and predation interactions (e.g. Gotceitas and Colgan 1989; Sredl and Collins 1992; Basquill and Grant 1998). Complex habitats provide the multiple critical resources for successful execution of an organism's life history strategy, therefore contributing to maintenance of population abundance by increasing recruitment (Fausch 1993; Kocik and Ferreri 1998) and reducing voluntary (McMahon and Hartman 1989; Mikheev et al. 1994), and involuntary (Pearsons et al. 1992) emigration.

Continued efforts to understand processes responsible for generating and supporting intraspecific diversity in inland trouts, and ecological and evolutionary

significance of that diversity will be critical to the conservation of these taxa (Healey and Prince 1995). This study identified several habitat characteristics correlated with size diversity at stream, reach, and habitat unit scales, suggesting that habitat complexity may have a role in generating size variation at fine scales. Exploration of habitat complexity at larger spatial scales, including role of disturbance processes, identification of primary gradients (e.g. productivity), and ultimately the definition of a habitat mosaic of patterns, conditions, and templates across multiple scales (Thompson et al. 2001) will also be critical to the conservation of inland salmonids. We also suggest that use of a biocomplexity approach to stream conservation may help to better characterize interrelationships between organisms and their biotic and abiotic environments, providing guidance on their response and ability to adapt to stress, whether adaptation is predictable in a changing environment, and how diversity affects system sustainability (Michener et al. 2001). A biocomplexity approach may also contribute to the maintenance of diversity and connectivity as these systems are affected by global climate change and other novel anthropogenic sources of disturbance.

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Table 1. Habitat characteristics recorded for each habitat unit.

Habitat Variable	Variable Type	Method of Determination
Refuge Cover	Categorical	Yes/Partial/No
Canopy Cover	Categorical	Open/Partial/Closed
Predator Access	Categorical	Yes/Limited/No
Unit Type	Categorical	as described in Figure 2
Unit Location	Categorical	Main/Side Channel
Unit Source	Categorical	Boulder/Large Woody Debris/Scour
Dominant Substrate	Categorical	Bedrock/Claypan/Boulder/Cobble/Gravel/ Peagravel/Sand/Silt/Organic
Habitat Diversity	Categorical	Diverse/Uniform
Sculpins	Categorical	Present/Absent as determined by electrofishing
Unit Width	Continuous	Measured
Unit Depth	Continuous	Measured
Unit Area	Continuous	Calculated from unit length X width
Maximum Depth	Continuous	Measured
Average Depth	Continuous	Average of depth measurements taken at six randomly Selected sites within unit and further than 2cm from water's edge
Depth Variation	Continuous	Coefficient of variation calculated from depth measurements

Table 2. Characteristics of study streams in the North Fork Coeur d' Alene River subbasin. Valley width: N=narrow, W=wide; Aspect: S=south, N=north, E=east, W=west; SD=standard deviation, # side channels is the number of transects that had a side channel.

Stream	Valley Width	Aspect	Conductivity (umhos)	Elevation (m)	Sinuosity	% Slope (SD)	Valley Width (m;SD)	Wetted Width (m;SD)	Maximum Depth (cm;SD)	# Side Channels
Cabin	N	SSW	41.0	884	1.2	3.1 (0.67)	42.8 (5.40)	3.03 (0.43)	15.8 (4.32)	4/5
Flat	N	ESE	52.0	914	1.1	3.0 (0.85)	32.0 (12.28)	5.33 (1.10)	27.6 (11.55)	1/5
Yellowdog	N	NE	14.0	808	1.3	2.4 (0.49)	17.1 (1.26)	5.10 (0.76)	23.2 (7.12)	0/5
Clinton	W	SSW	36.0	927	1.8	1.7 (0.00)	144.2 (35.41)	2.59 (0.82)	16.6 (6.80)	2/5
Iron	W	WSW	62.5	930	1.6	1.4 (0.70)	168.0 (31.75)	4.01 (1.83)	36.4 (15.22)	1/5
Halsey		NNW	78.0	939	1.2	2.3 (2.05)	51.7 (13.47)	2.95 (0.63)	23.4 (10.90)	3/5

Table 3. Results of chi square tests between age 0 habitat units in narrow and wide stream reaches in the North Fork Coeur d' Alene River subbasin, Idaho. Narrow and Wide columns show percentages of units per cell. N=number of expected cells in the chi square test. * indicates that variable suffered from low counts in one or more chi square cells and modified procedures as described in the methods section were used. LWD=large woody debris, see Figure 2 for unit type abbreviations, SaSiOrg=sand, silt, and organic material combined.

Variable	Narrow	Wide	N	χ^2	p
Source*			3	450.1	<0.025
Boulder	76.6	10.8			
LWD	15.4	56.1			
Scour	8.0	33.1			
Type*			7	104.6	<0.005
LH	33.3	41.8			
PIP	46.3	15.6			
IP	0.0	0.7			
FWR	0.0	6.4			
SWR	9.0	16.3			
CWP	4.5	11.3			
LPM	3.0	7.1			
Substrate			5	230.7	<0.005
Boulder	26.4	0.7			
Cobble	42.3	50.0			
Gravel	22.9	29.3			
PeaGravel	4.5	4.3			
SaSiOrg	4.0	15.7			
Sculpins			2	88.3	<0.025
Yes	68.7	92.9			
No	31.3	7.1			
Refuge Cover			3	20.0	<0.025
No	15.9	5.7			
Partial	74.1	80.0			
Yes	10.0	14.3			
Canopy Cover			3	0.8	NS
Open	9.5	12.1			
Partial	79.1	77.9			
Closed	11.4	10.0			
Predator Access*			3	5.6	NS
Yes	34.3	41.4			
Limited	60.7	57.1			
No	5.0	1.4			
Habitat Diversity			2	1.8	NS
Diverse	46.5	40.0			
Uniform	53.5	60.0			

Table 4. Statistical significance of differences in habitat unit and age 0 cutthroat trout characteristics in narrow versus wide stream reaches in the North Fork Coeur d' Alene River subbasin, Idaho. (VW=valley width, YR=year, X=Average, Max = maximum, COV=coefficient of variation, NS= not significant at p<0.10)

Variable	N	R^2	Model	VW	YR	VW*YR
Unit Length	341	0.126	<0.0001	**<0.0001**	<0.0001	**<0.002**
Unit Width	341	0.046	<0.002	**<0.0002**	NS	NS
Unit Area	341	0.080	<0.0001	**<0.0001**	<0.003	**<0.008**
Unit X Depth	341	0.114	<0.0001	**<0.0001**	<0.002	**<0.009**
Unit Max Depth	341	0.065	<0.0001	**<0.0001**	NS	**<0.09**
Unit COV Depth	341	0.052	<0.0004	NS	<0.0001	NS
Age 0 X Length	341	0.664	<0.0001	NS	<0.0001	<0.06
Age 0 COV Length	126	0.160	<0.0001	**<0.02**	<0.007	**<0.0002**
Age 0 Density	341	0.058	<0.0002	**<0.0005**	NS	NS
Age 0 # Fish/Unit	341	0.072	<0.0001	**<0.0006**	<0.03	**<0.0001**

Table 5. Summary statistics of differences in continuous habitat variables by stream and valley width. SD=standard deviation, COV=coefficient of variation.

Stream	N	Unit Maximum Depth (cm; SD)	Unit Average Depth (cm; SD)	Unit COV Depth	Unit Width (m; SD)	Unit Length (m; SD)	Unit Area (m^2; SD)	Age 0 Average Length (mm; SD)	Age 0 COV Length	# Age 0/Unit (SD)	Age 0 Density (#/m^2; SD)
Cabin	60	12.32 (4.99)	7.59 (3.23)	0.310	0.82 (0.47)	1.01 (0.42)	0.89 (0.73)	42.0 (5.79)	0.110	1.5 (0.88)	2.53 (1.83)
Flat	70	17.10 (7.67)	10.38 (4.40)	0.317	0.87 (0.35)	1.21 (0.51)	1.15 (0.86)	37.9 (4.23)	0.122	1.8 (1.03)	2.21 (1.65)
Yellowdog	71	20.92 (7.05)	12.96 (4.92)	0.301	1.02 (0.45)	1.56 (0.84)	1.80 (1.53)	46.5 (5.93)	0.167	1.4 (0.72)	1.56 (1.70)
NARROW AVERAGE	**201**	**16.78** (4.31)	**10.31** (2.69)	**0.310** (0.01)	**0.90** (0.11)	**1.25** (0.27)	**1.28** (0.47)	**42.1** (4.28)	**0.133** (0.03)	**1.5** (0.21)	**2.10** (0.50)
Clinton	70	19.84 (12.88)	13.16 (8.47)	0.289	1.20 (0.67)	1.72 (1.15)	2.57 (3.76)	43.2 (3.69)	0.085	1.9 (1.25)	1.35 (0.94)
Iron	79	23.68 (12.31)	15.28 (8.70)	0.289	1.11 (0.70)	2.37 (1.97)	4.60 (7.55)	41.4 (3.98)	0.114	2.7 (2.98)	1.58 (1.17)
WIDE AVERAGE	**149**	**21.76** (2.71)	**14.22** (1.50)	**0.289** (0.00)	**1.16** (0.06)	**2.04** (0.46)	**3.58** (1.44)	**42.3** (1.22)	**0.100** (0.02)	**2.3** (0.60)	**1.46** (0.16)

Table 6. Results of chi square tests between age 0 habitat units in containing only big or small individuals, in stream reaches in the North Fork Coeur d' Alene River subbasin, Idaho. Big and Small columns show percentages of units per cell. N=number of expected cells in the chi square test. * indicates that variable suffered from low counts in one or more chi square cells, and that modified procedures as indicated in the methods section were used. LWD=large woody debris, see Figure 2 for unit type abbreviations, SaSiOrg=a combined category including sand, silt, and organic material.

Variable	Small	Big	N	χ^2	p
Source			3	10.4	<0.025
Boulder	44.3	52.2			
LWD	29.5	33.0			
Scour	26.2	14.8			
Substrate*			5	24.87	<0.025
Boulder	8.2	17.4			
Cobble	36.1	44.4			
Gravel	36.1	27.0			
PeaGravel	9.8	3.5			
SaSiOrg	9.8	7.8			
Predator Access*			3	6.47	<0.05
Yes	29.5	39.1			
Limited	68.9	57.4			
No	1.6	3.5			
Habitat Diversity				13.6	<0.025
Diverse	31.2	49.6			
Uniform	68.8	50.4			
Sculpins			2	1.19	NS
Yes	80.3	75.6			
No	19.7	24.4			
Refuge Cover			3	1.63	NS
No	13.1	13.0			
Partial	80.3	76.5			
Yes	6.6	10.4			
Canopy Cover			3	0.51	NS
Open	8.2	9.6			
Partial	78.7	75.7			
Closed	13.1	14.8			
Type*			7	4.43	NS
LH	39.3	34.8			
PIP	34.4	35.6			
IP	1.6	1.7			
FWR	3.3	0.9			
SWR	11.5	14.8			
CWP	6.6	6.1			
LPM	3.3	6.1			

Table 7. Statistical significance of differences in habitat unit and age 0 cutthroat trout occupied by small and big age 0 cutthroat trout in tributaries to the North Fork Coeur d' Alene River subbasin, Idaho. (SI=size, ST=stream, YR=year, X=Average, Max = maximum, COV=coefficient of variation, NS=not significant at p<0.10). N=220.

		Independent Variable p Value							
Dependent Variable	R^2	Model	Size	Year	Stream	SI*YR	SI*ST	YR*ST	SI*YR*ST
Unit Length	0.331	<0.0001	NS	<0.03	<0.004	NS	<0.003	<0.0001	<0.01
Unit Width	0.138	NS	**<0.05**	<0.003	NS	NS	NS	NS	NS
Unit Area	0.137	NS	NS	NS	NS	NS	NS	NS	NS
Unit X Depth	0.302	<0.0001	**<0.02**	NS	<0.0001	NS	NS	<0.05	NS
Unit Max Depth	0.283	<0.0001	**<0.03**	NS	<0.0001	NS	**<0.03**	<0.05	NS
Unit COV Depth	0.100	NS	NS	<0.06	NS	NS	NS	NS	NS
Age 0 Density	0.182	<0.02	**<0.07**	NS	<0.07	NS	NS	NS	**<0.02**

Table 8. Summary statistics of differences in continuous habitat variables by fish size and stream. SD=standard deviation, COV=coefficient of variation, B=big, S=small.

Stream		N	Age 0 Length (mm; SD)	Unit Maximum Depth (cm; SD)	Unit Average Depth (cm; SD)	Unit COV Depth (SD)	Unit Width (m; SD)	Unit Length (m; SD)	Unit Area (m^2; SD)	# Age 0/Unit (SD)	Age 0 Density (#/m^2; SD)
Cabin	**B**	22	49.40 (9.61)	13.14 (4.25)	7.86 (2.13)	0.327	0.90 (0.63)	1.99 (0.39)	0.93 (0.82)	1.3 (0.46)	2.20 (1.51)
	S	17	35.35 (6.75)	11.00 (4.15)	6.57 (2.51)	0.313	0.90 (0.45)	0.79 (0.33)	0.74 (0.49)	1.4 (1.00)	2.68 (2.18)
Clinton	**B**	20	47.28 (14.21)	24.23 (1729)	15.64 (10.99)	0.295	1.30 (0.84)	1.54 (0.80)	2.24 (2.58)	1.1 (0.31)	0.85 (0.55)
	S	13	38.75 (9.35)	15.92 (7.78)	11.31 (6.90)	0.287	1.17 (0.52)	1.31 (0.86)	1.47 (1.07)	1.8 (1.01)	1.48 (0.79)
Flat	**B**	28	40.21 (8.78)	17.84 (6.25)	11.04 (4.52)	0.300	1.04 (0.37)	1.15 (0.50)	1.25 (0.84)	1.3 (0.60)	1.48 (1.24)
	S	10	29.88 (8.34)	13.60 (8.03)	8.09 (4.93)	0.366	0.92 (0.34)	0.96 (0.72)	0.88 (0.72)	1.4 (0.84)	2.03 (1.04)
Halsey	**B**	20	53.77 (11.51)	19.72 (9.19)	13.03 (6.76)	0.283	1.16 (1.30)	1.86 (1.33)	3.58 (8.06)	1.4 (0.60)	1.77 (1.87)
	S	7	32.00 (5.79)	11.71 (5.65)	7.25 (3.79)	0.290	0.71 (0.34)	0.88 (0.61)	0.76 (0.85)	1.0 (0.00)	3.66 (3.34)
Iron	**B**	12	49.00 (9.40)	18.33 (6.24)	12.39 (4.12)	0.286	1.14 (0.57)	0.94 (0.39)	1.09 (0.70)	1.1 (0.29)	1.65 (1.44)
	S	24	37.29 (6.07)	25.17 (12.39)	16.42 (10.05)	0.285	1.14 (O.53)	1.55 (1.52)	1.80 (1.94)	1.5 (1.06)	1.48 (1.10)
Yellowdog	**B**	39	49.40 (7.73)	21.05 (7.68)	13.21 (4.97)	0.290	1.24 (0.64)	1.33 (0.85)	1.82 (1.66)	1.2 (0.60)	1.59 (2.21)
	S	8	31.75 (7.83)	19.88 (8.10)	12.65 (5.50)	0.263	0.86 (0.29)	1.23 (0.55)	1.16 (0.83)	1.0 (0.00)	1.63 (1.89)
BIG AVERAGE		141	47.74 (4.91)	19.21 (3.71)	12.19 (2.58)	0.30 (0.02)	1.13 (0.15)	1.31 (0.37)	1.82 (1.01)	1.2 (0.12)	1.59 (0.44)
SMALL AVERAGE		79	35.05 (4.50)	17.41 (4.41)	11.21 (3.02)	0.30 (0.01)	0.95 (0.15)	1.18 (0.41)	1.25 (1.04)	1.4 (0.14)	2.02 (0.59)

Table 9. Results of chi square tests between age 0 habitat units occupied by age 0 cutthroat trout of heterogeneous or homogeneous size structures in stream reaches in the North Fork Coeur d' Alene River subbasin, Idaho. Hetero and Homo columns show percentages of units per cell. N=number of expected cells in the chi square test. * indicates that variable suffered from low counts in one or more chi square cells, and that modified procedures as indicated in the methods section were used. LWD=large woody debris, see Figure 2 for unit type abbreviations, SaSiOrg=sand, silt, and organic material combined.

Variable	Hetero	Homo	N	χ^2	p
Source			3	6.63	<0.05
Boulder	37.2	43.6			
LWD	32.6	41.0			
Scour	30.2	15.4			
Canopy Cover*			3	9.02	<0.025
Open	30.2	10.3			
Partial	60.5	82.0			
Closed	9.3	7.7			
Predator Access*			3	11.04	<0.005
Yes	20.9	43.6			
Limited	79.1	51.3			
No	0.0	5.1			
Substrate*			5	9.37	<0.1
Boulder	14.0	10.3			
Cobble	51.2	41.0			
Gravel	18.6	41.0			
PeaGravel	2.3	5.1			
SaSiOrg	14.0	2.7			
Type*			7	1.87	NS
LH	32.6	35.9			
PIP	37.2	30.8			
FWR	4.7	7.7			
SWR	11.6	15.4			
CWP	9.3	7.7			
LPM	4.6	2.6			
Sculpins			2	0.44	NS
Yes	81.4	76.9			
No	18.6	23.1			
Refuge Cover			3	4.06	NS
No	2.3	12.8			
Partial	72.1	61.5			
Yes	25.6	25.6			
Habitat Diversity			2	0.32	NS
Diverse	55.8	51.3			
Uniform	44.2	48.7			

Table 10. Differences in habitat unit and age 0 cutthroat trout characteristics between units occupied by heterogeneous versus homogeneous (mix) age 0 size structures in stream reaches in the North Fork Coeur d' Alene River subbasin, Idaho. (M=mix, YR=year, ST=stream, X=Average, Max = maximum, COV=coefficient of variation, NS=not significant at $p<0.10$). N=82.

		Independent Variable p Value							
Variable	R^2	Model	Mix	Year	Stream	M*YR	M*ST	YR*ST	M*YR*ST
Unit Length	0.430	<0.007	**<0.06**	NS	<0.09	NS	NS	NS	NS
Unit Width	0.395	<0.03	**<0.004**	<0.03	<0.03	**<0.01**	NS	NS	**<0.002**
Unit Area	0.281	NS	**<0.07**	NS	NS	NS	NS	NS	NS
Unit X Depth	0.287	NS	NS	NS	NS	NS	NS	NS	NS
Unit Max Depth	0.272	NS	NS	NS	NS	NS	NS	NS	<0.06
Unit COV Depth	0.415	<0.02	NS	NS	<0.004	NS	NS	NS	NS
Age 0 Density	0.406	<0.02	NS	<0.04	<0.03	NS	NS	NS	NS
Age 0 # Fish/Unit	0.284	NS	**<0.03**	NS	NS	NS	NS	NS	NS

Table 11. Summary statistics of differences in continuous habitat variables by fish size structure variation and stream. SD=standard deviation, COV=coefficient of variation, HE=heterogeneous, HO=homogeneous, AVE=average.

Stream		N	Age 0 COV Length (SD)	Unit Maximum Depth (cm; SD)	Unit Average Depth (cm; SD)	Unit COV Depth (SD)	Unit Width (m; SD)	Unit Length (m; SD)	Unit Area (m^2; SD)	# Age 0/Unit (SD)	Age 0 Density (#/m^{2}; SD)
Cabin	HE	4	0.154	20.63 (6.34)	15.96 (3.99)	0.220	0.96 (0.44)	1.24 (0.41)	1.24 (0.71)	4.8 (2.75)	4.4 (2.08)
	HO	8	0.045	12.13 (2.23)	7.81 (1.76)	0.297	0.77 (0.28)	1.09 (0.43)	0.84 (0.40)	2.0 (0.00)	2.9 (1.36)
Clinton	HE	5	0.108	22.20 (10.84)	12.18 (7.57)	0.316	1.41 (0.31)	2.69 (0.56)	3.85 (1.26)	4.4 (0.89)	1.2 (0.40)
	HO	4	0.040	24.38 (9.59)	14.71 (5.34)	0.356	1.21 (0.31)	2.28 (0.93)	2.74 (1.21)	2.3 (0.50)	0.9 (0.34)
Flat	HE	12	0.184	18.21 (7.73)	10.56 (5.20)	0.321	1.08 (0.39)	1.43 (0.62)	1.67 (1.18)	3.1 (1.00)	2.8 (1.72)
	HO	9	0.065	19.78 (6.30)	11.99 (3.30)	0.318	0.98 (0.41)	1.55 (0.57)	1.68 (1.07)	2.3 (0.50)	2.3 (1.97)
Halsey	HE	9	0.145	21.22 (7.25)	14.30 (4.18)	0.261	1.53 (0.95)	2.90 (1.39)	4.96 (4.23)	4.1 (2.47)	1.2 (0.71)
	HO	9	0.023	18.78 (9.77)	11.67 (6.21)	0.332	1.19 (0.79)	2.10 (1.22)	3.20 (4.20)	2.1 (0.33)	1.5 (0.87)
Iron	HE	10	0.137	20.65 (11.57)	13.46 (7.50)	0.246	1.31 (1.09)	2.48 (2.29)	5.30 (10.83)	5.4 (7.65)	2.1 (1.40)
	HO	5	0.024	16.20 (8.87)	9.45 (5.99)	0.347	0.89 (0.27)	1.42 (0.56)	1.32 (0.83)	2.2 (0.45)	2.2 (1.15)
Yellowdog	HE	3	0.351	27.00 (7.00)	15.17 (5.11)	0.383	1.44 (0.41)	2.62 (0.65)	3.87 (1.79)	2.0 (0.00)	0.6 (0.29)
	HO	4	0.063	24.75 (5.44)	16.02 (3.93)	0.198	0.82 (0.34)	2.06 (1.72)	2.01 (1.89)	2.8 (0.96)	4.0 (5.02)
HE AVE		43	0.18 (0.09)	21.65 (2.93)	13.60 (1.99)	0.29 (0.06)	1.29 (0.22)	2.23 (0.70)	3.48 (1.68)	3.96 (1.23)	2.06 (1.39)
HO AVE		39	0.04 (0.02)	19.33 (4.84)	11.94 (3.09)	0.31 (0.06)	0.97 (0.19)	1.75 (0.47)	1.96 (0.88)	2.27 (0.26)	2.31 (1.10)

Table 12. Summary of signficant habitat characteristics across stream, reach, and habitat unit scales.

	Stream (Valley Width)	Reach (Between Units)	Unit (Within Unit)
Categorical	Source →	Source	
	⟶	⟶	Source
	Substrate →	Substrate	
	⟶	⟶	Substrate
	Type		
	Sculpins		
	Refuge Cover		
		Predator Access ↔	Predator Access
		Habitat Diversity	
			Canopy Cover
Continuous	Unit Width →	Unit Width →	Unit Width
	Unit Max Depth		
	Age 0 Density		
		Unit Ave Depth	
			Unit Length
			Unit Area
			Unit COV Depth
			# Fish/Unit

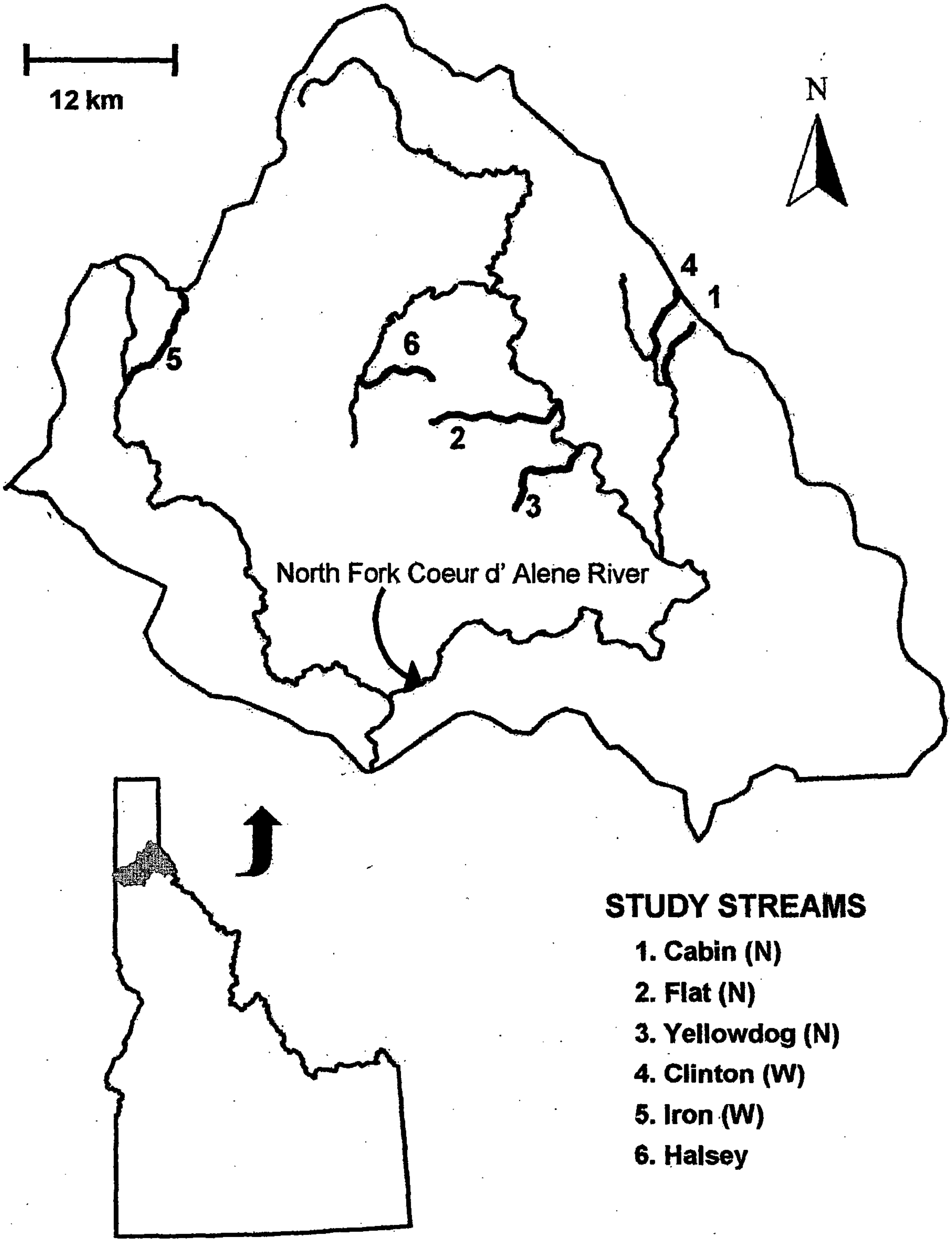


Figure 1. Study area in the North Fork Coeur d' Alene River subbasin, northern Idaho. N = narrow, W = wide.

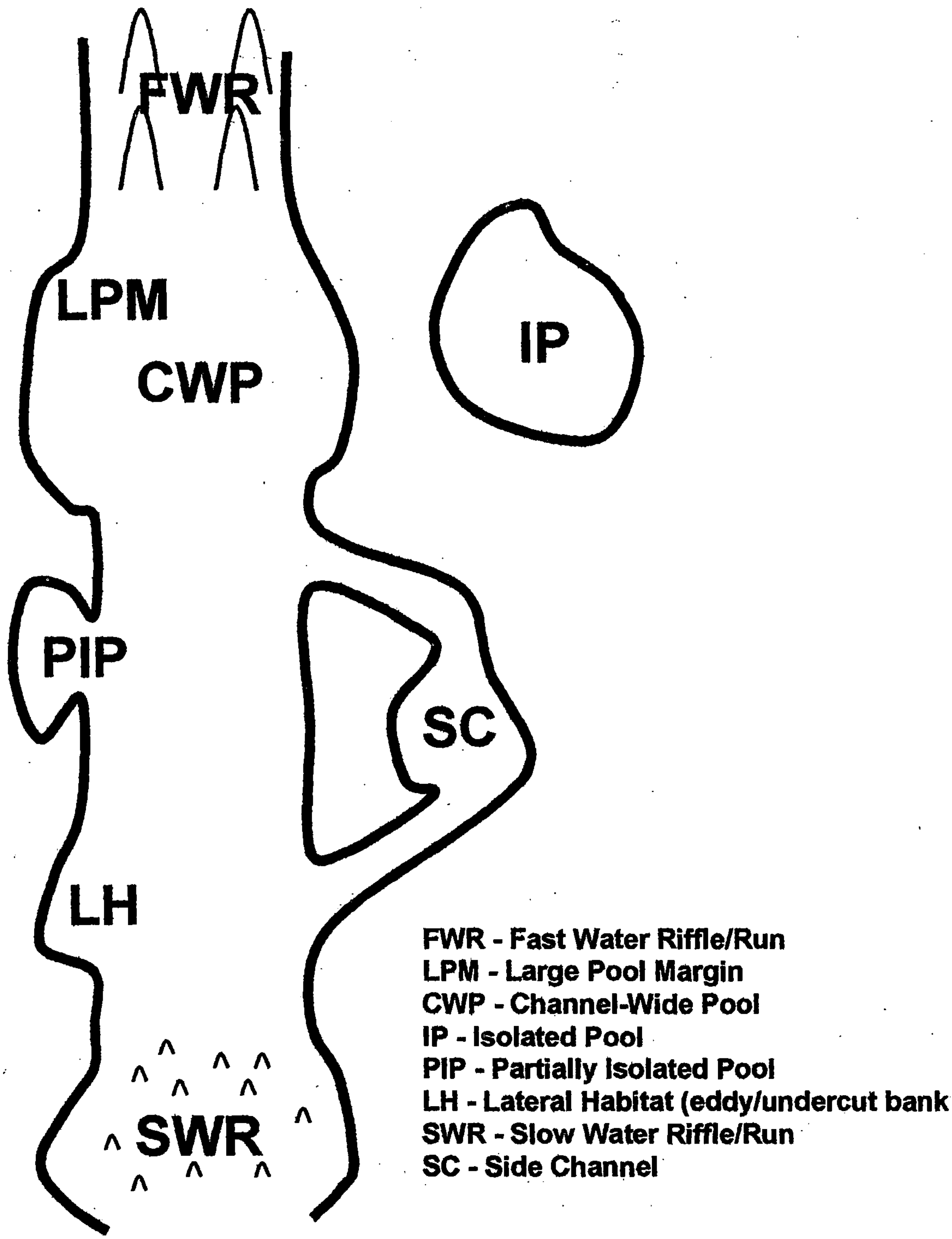


Figure 2. Habitat unit types used in the study.

Figure 3. Source of age 0 habitat units in a) narrow and b) wide valleys.

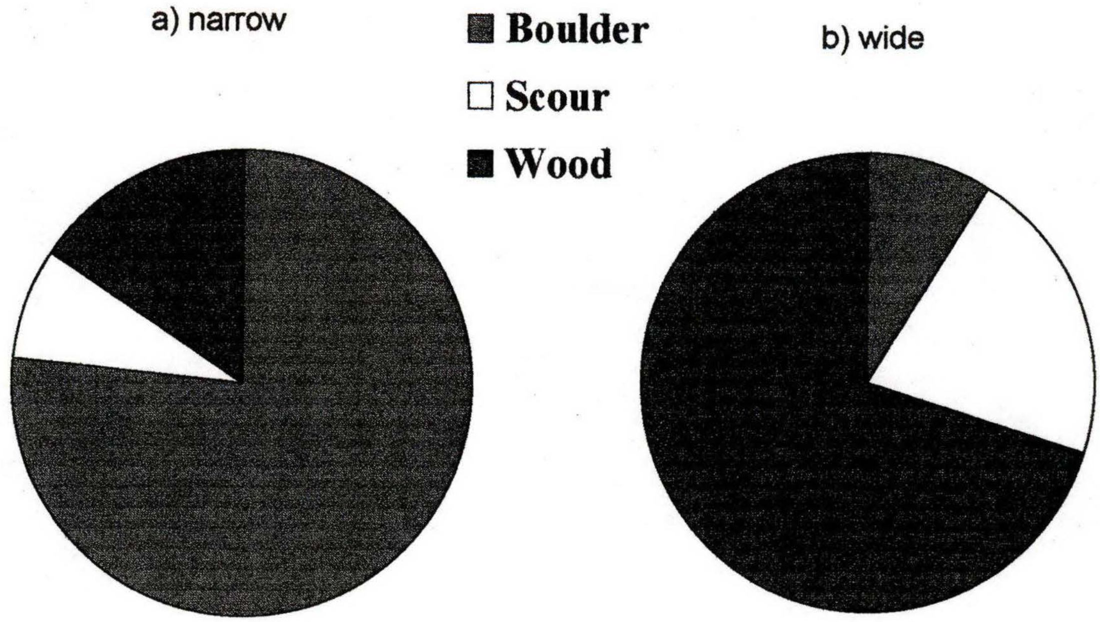


Figure 4. Age 0 habitat unit types in a) narrow and b) wide valleys.

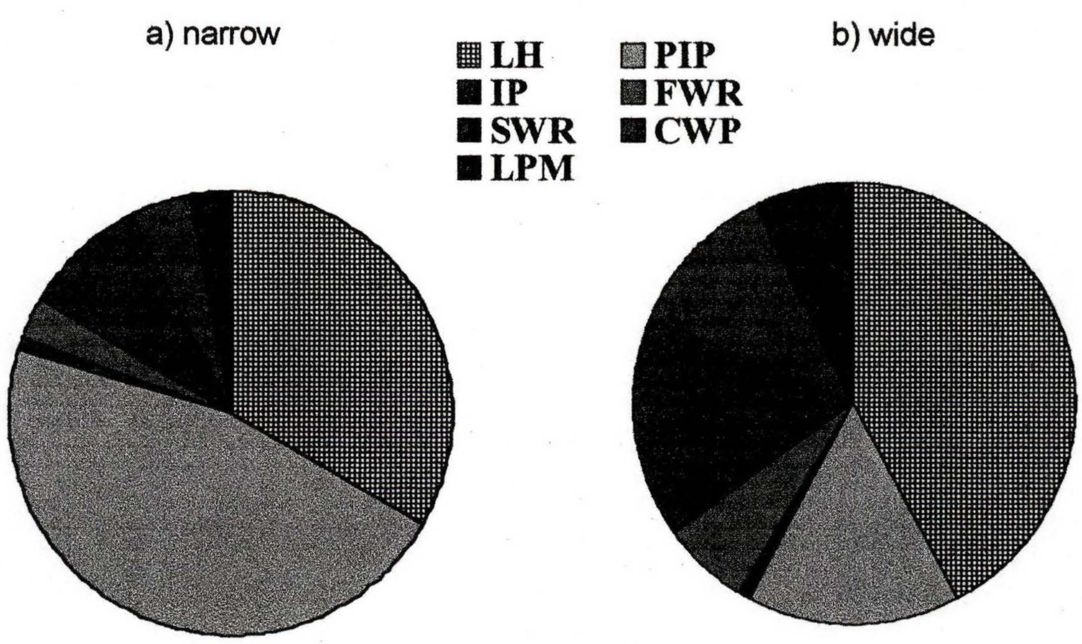


Figure 5. Dominant substrate of age 0 habitat units in a) narrow and b) wide valleys.

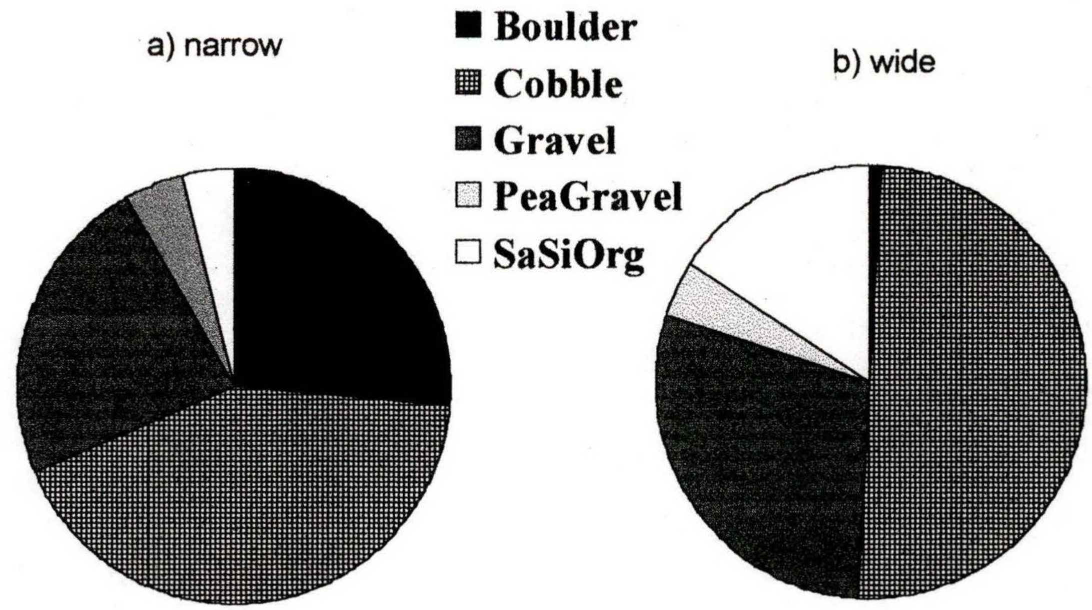


Figure 6. Presence of sculpins in age 0 habitat units in a) narrow and b) wide valleys.

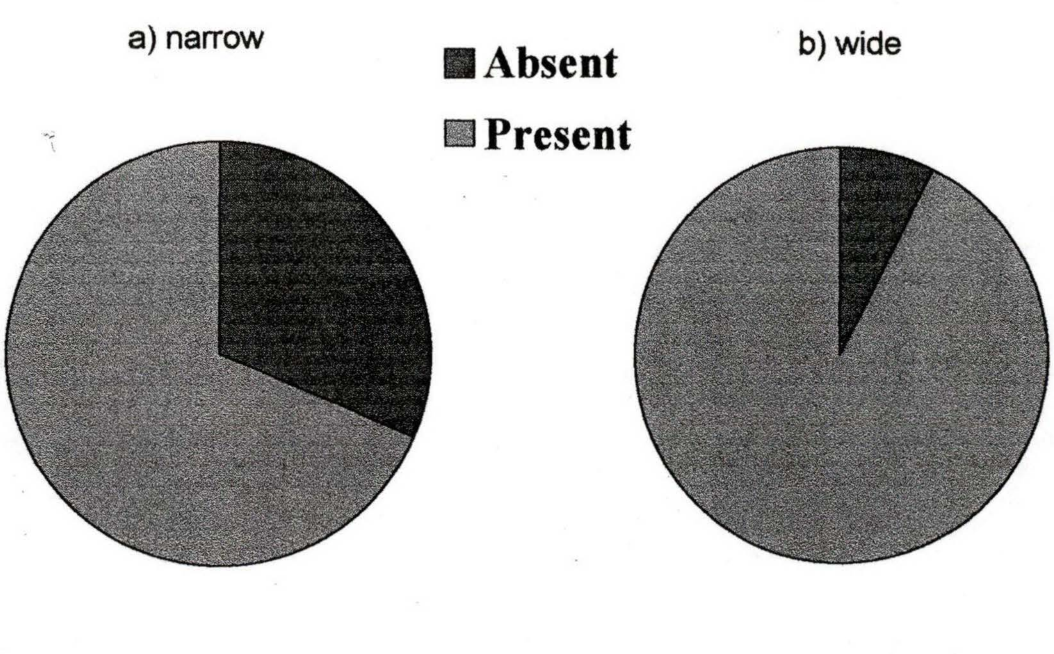


Figure 7. Presence of cover in age 0 habitat units in a) narrow and b) wide valleys.

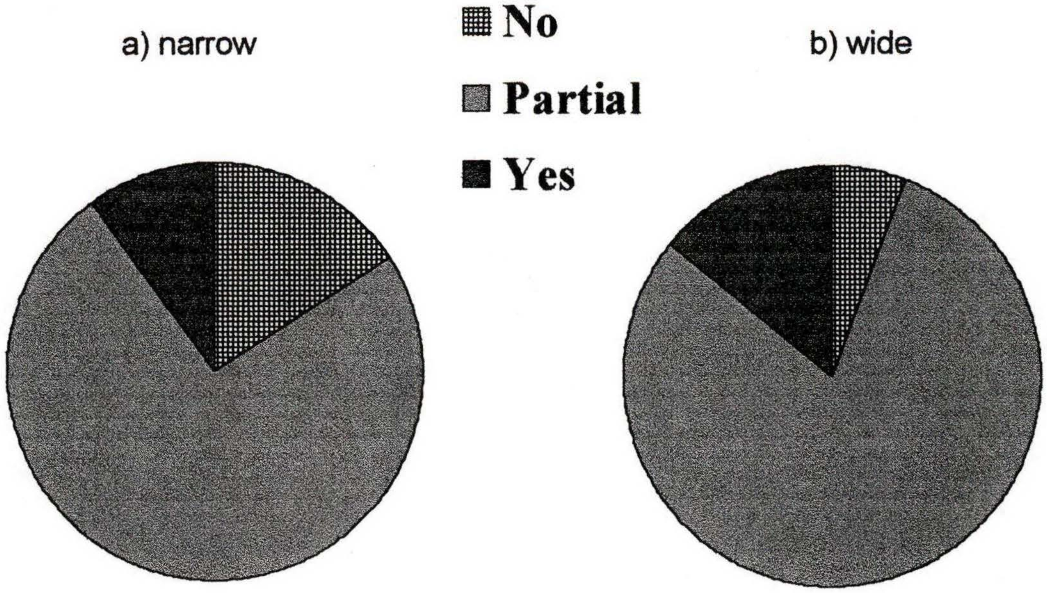


Figure 8. Source of age 0 habitat units inhabited by a) big and b) small age 0 cutthroat trout.

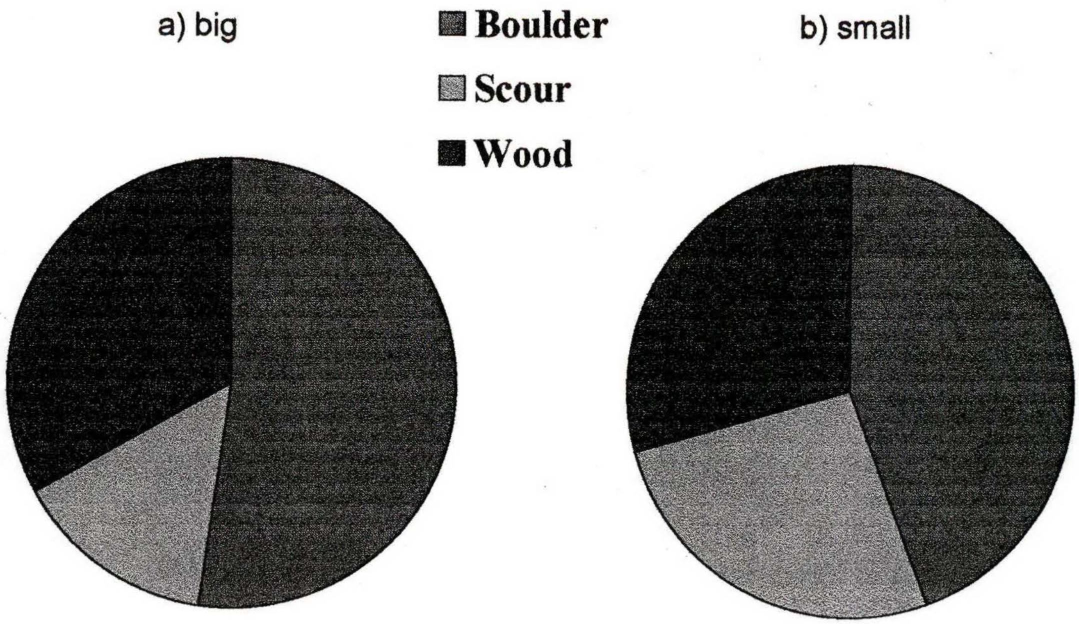


Figure 9. Age 0 habitat unit types occupied by a) big and b) small age 0 cutthroat trout.

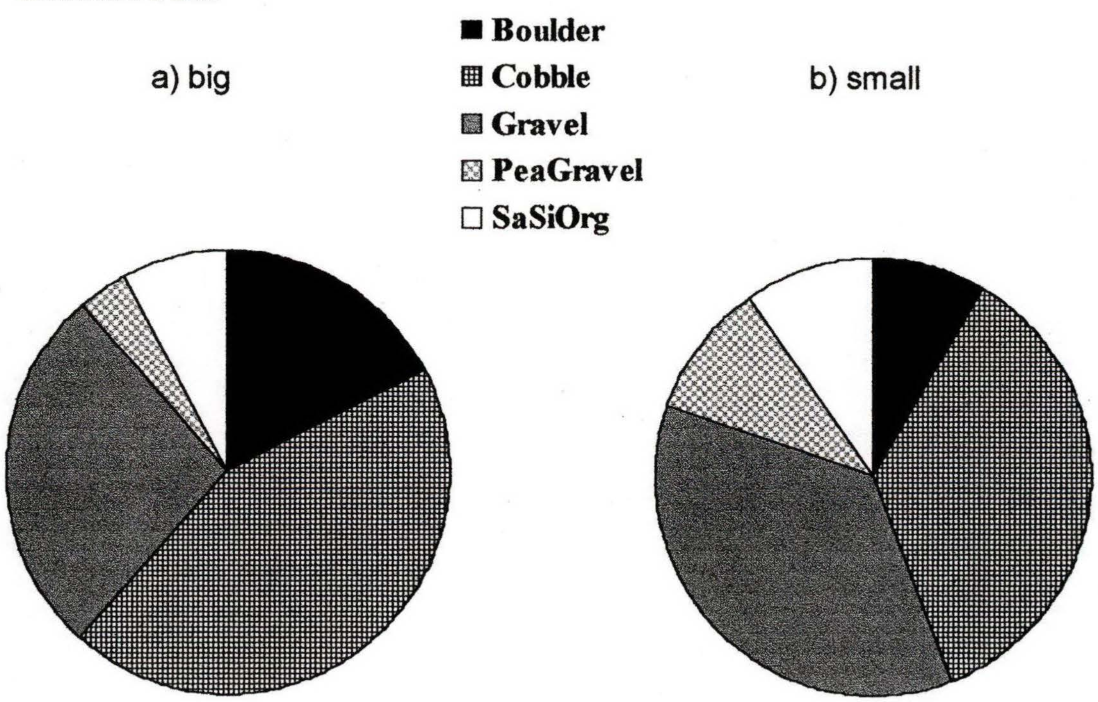


Figure 10. Age 0 habitat diversity occupied by a) big and b) small age 0 cutthroat trout.

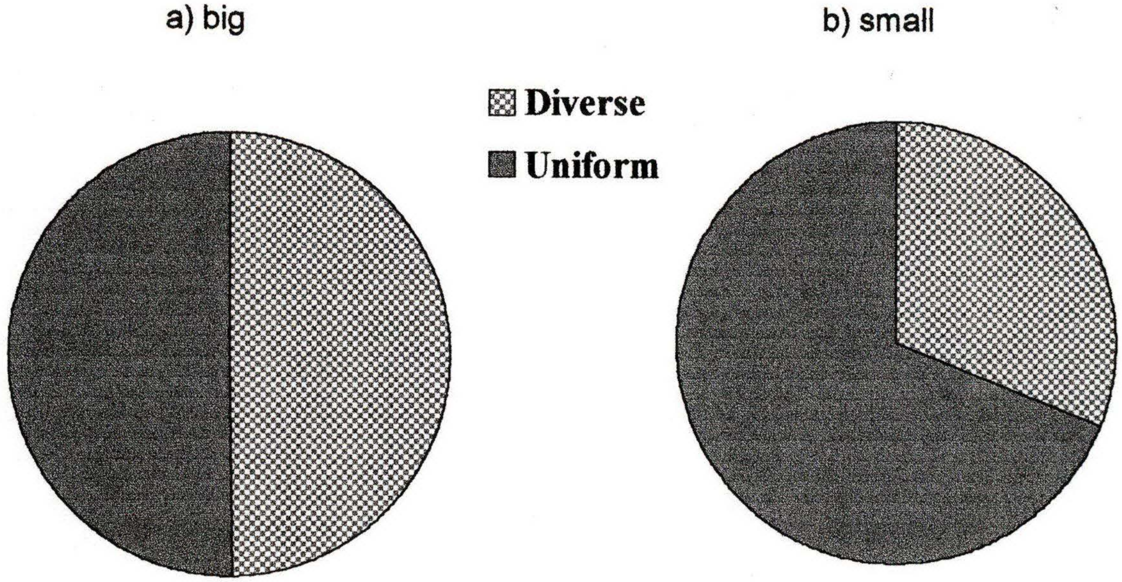


Figure 11. Predator access to age 0 habitat units occupied by a) big and b) small age 0 cutthroat trout.

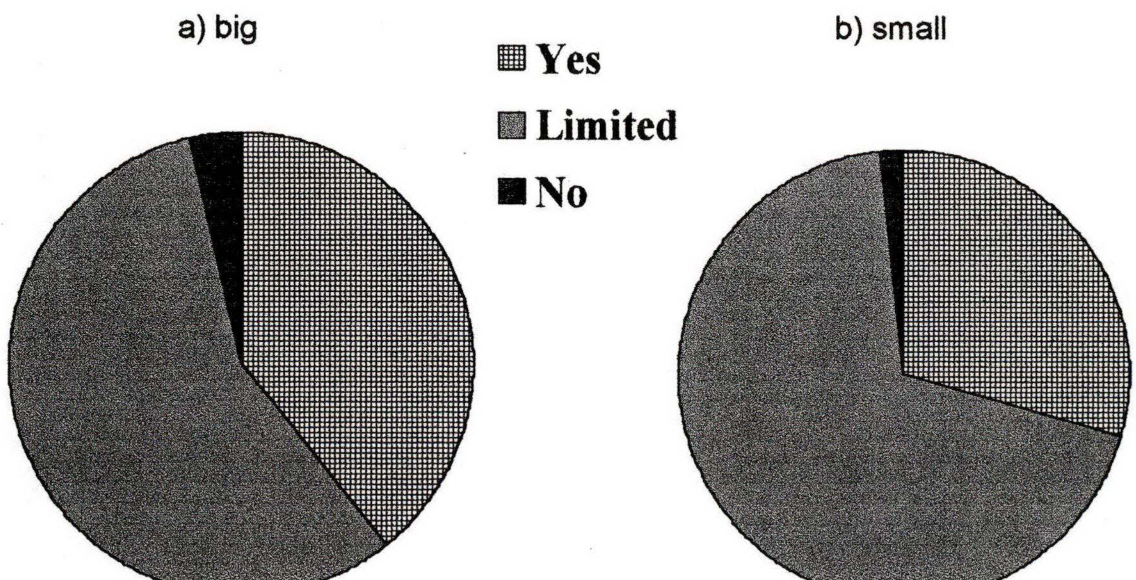


Figure 12. Source of age 0 habitat units inhabited by a) heterogeneous and b) homogeneous size structures of age 0 cutthroat trout.

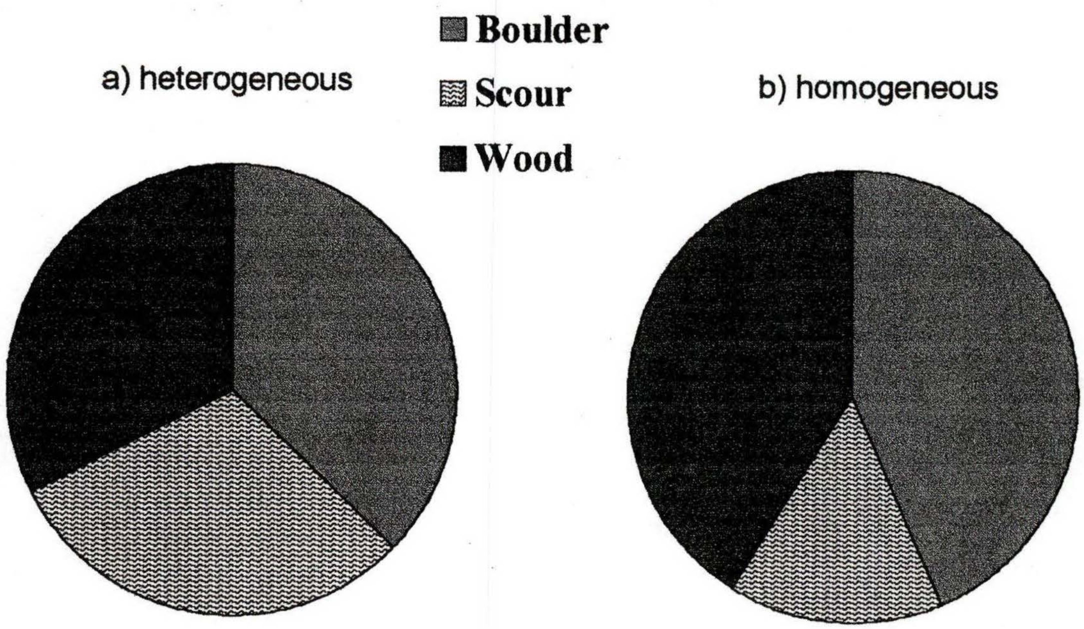


Figure 13. Canopy cover of age 0 habitat units inhabited by a) heterogeneous and b) homogeneous size structures of age 0 cutthroat trout.

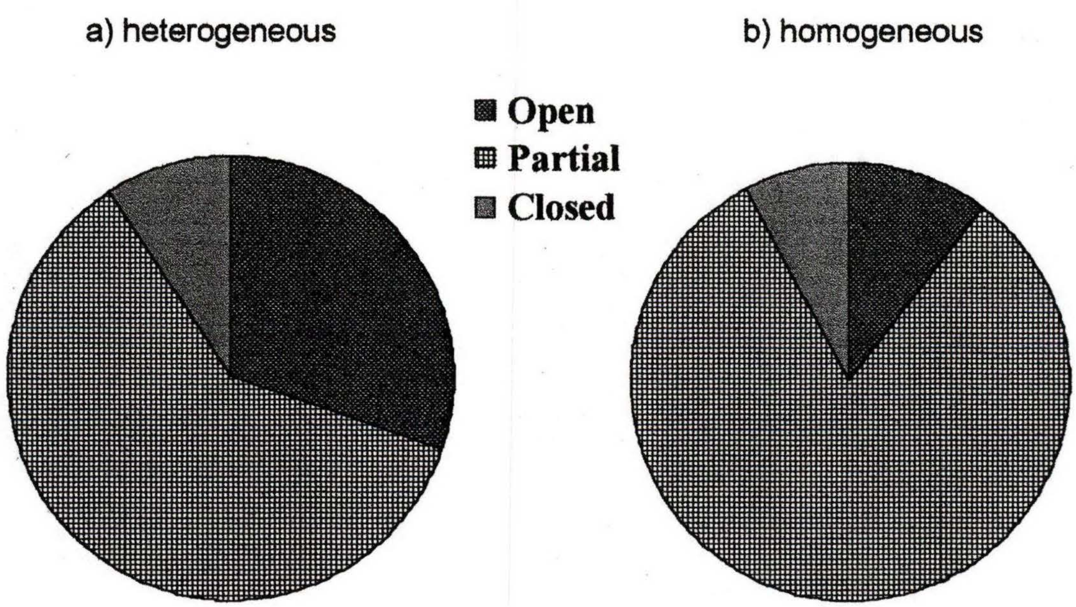


Figure 14. Predator access to age 0 habitat units inhabited by a) heterogeneous and b) homogeneous size structures of age 0 cutthroat trout.

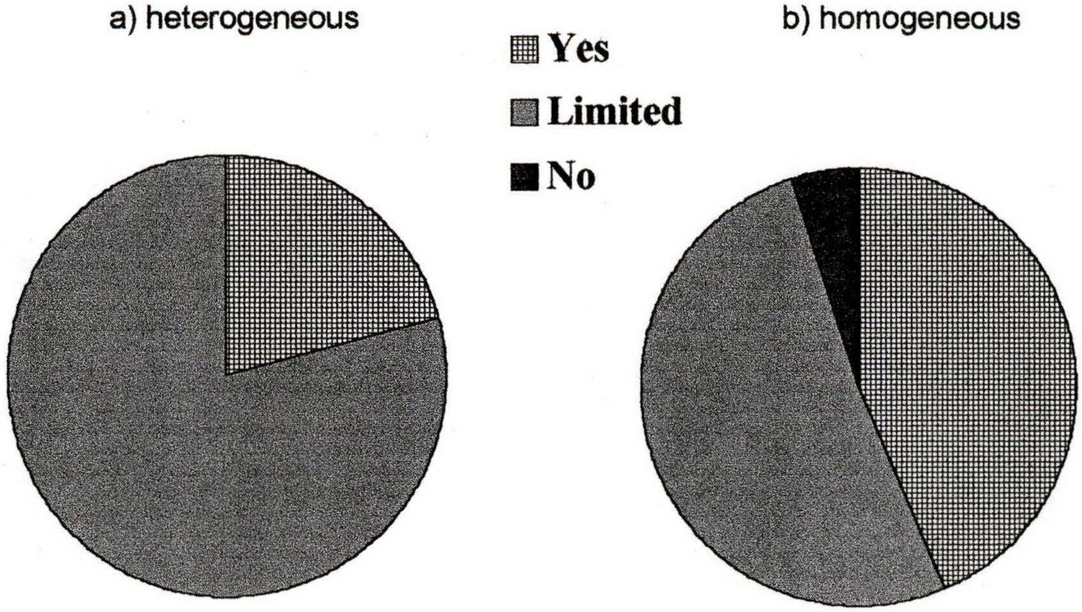
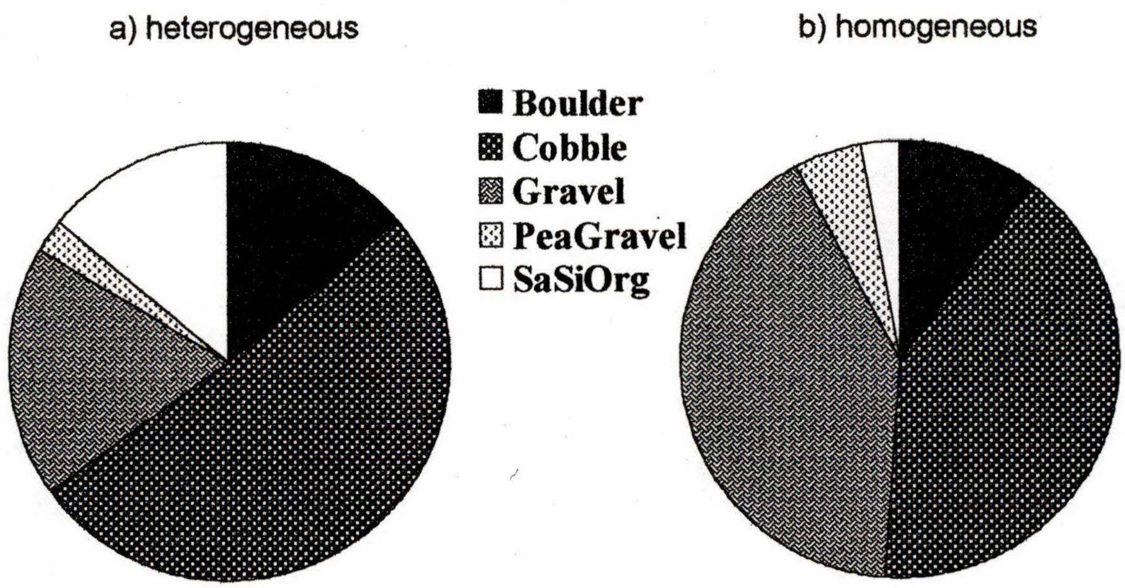


Figure 15. Substrate of age 0 habitat units inhabited by a) heterogeneous and b) homogeneous size structures of age 0 cutthroat trout.



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APPENDIX II - Length Variation in Age 0 Westslope Cutthroat Trout (*Oncorhynchus clarki lewisi*) across Spatial Scales and Growth Potential Gradients

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ABSTRACT

Phenotypic diversity, or the morphological, behavioral, or life history variation among individuals, is an important component of ecological diversity in fishes. This variation can lead to divergence, radiation, and even speciation via local adaptation and can stabilize populations in variable environments. The benefits of larger body size in salmonids for survival, migratory success, competitive ability, and predator avoidance is well documented; "bigger is better" is an accepted paradigm in fish ecology. However, big may not always be better. In some circumstances, small may be better, and across annual and longer temporal scales, no one size may be most successful. Size differentiation may reduce intra-cohort competition through niche separation, and size variation may provide important values for a population. Mechanisms controlling size diversification are not well understood. We examined mean body size (CLen) and interquartile range of mean size (CIQR; size diversity) in age 0 westslope cutthroat trout (*Oncorhynchus clarki lewisi*) in the Coeur d' Alene basin, Idaho, among areas (10^0km – area scale), among streams within areas (10^1km – stream scale), and among sites within streams (10^2km – site scale). Relationships of size and size variation with the instream productivity gradients, temperature and productivity (measured as conductivity), and four landscape gradients thought to affect temperature: aspect, elevation, headwater distance, and valley width were used to explore spatial patterns of size variation. Most variation in CLen and CIQR was found among areas (60.5% and 63.6% respectively). Both instream productivity gradients as well as elevation and aspect explained significant variation in mean size whereas only temperature and

elevation explained significant variation in size variation. Distribution of variation in length variables most closely associated with conductivity, temperature, aspect, and elevation, supporting the view that productivity and temperature to have causal roles in generating size variation and suggesting that causal mechanisms occur at the same or larger spatial scales as landscape and instream patterns. Elevation was the only landscape variable explaining significant variation in temperature. Our findings may have important implications for conservation of westslope cutthroat trout and other stream fishes. Differences in life history characteristics such as migratory behavior, egg size, fecundity, and age at maturity between fish in productive and unproductive environments are predicted based on life history theory. Because diversity appears to be less in headwater streams, populations in these streams may be more sensitive and less resilient to disturbance. Conservation of the full range of variation in westslope cutthroat trout may require high quality habitats across these gradients and at scales larger than individual streams. Identification of spatial scales at which diversity is generated and environmental gradients generating that diversity are important steps towards understanding diversifying mechanisms and conservation needs of stream fishes. Important spatial scales and environmental gradients may need to be considered when defining evolutionarily significant units (ESUs) for species protected under the U.S. Endangered Species Act.

INTRODUCTION

Phenotypic variation, the intraspecific variation in life history, morphology, and behavior, plays a critical part in many evolutionarily and ecologically essential functions (Skulason and Smith 1995), and therefore may be critical to conserve. Processes driven by phenotypic variation include the ability to adapt to local conditions and disturbance regimes, population differentiation that leads to speciation, and the ability to reduce intra- and interspecific competition through niche differentiation (e.g. Nikol'skiy 1969; Utter 1981; Skulason and Smith 1995). Plasticity in some traits may allow adjustment to variable environments while maintaining stability in traits closely linked to survival and fitness (Caswell 1983; Stearns 1983; Thompson 1991). Causes, consequences, and evolutionary potential of phenotypic plasticity are important questions in the ecology and conservation of organisms in variable environments (Schlichting 1989). Successful fish conservation and management may then require recognition and understanding of phenotypic variation and processes generating that variation (Gresswell et al. 1994; Healey and Prince 1995).

Organism size has been recognized as an important phenotypic characteristic mediating various biological processes, including metabolism, growth, production rate, reproductive condition and commitments, and constraints on body function (Policansky 1983; Stein et al. 1987), and a considerable body of literature exists on the subject (e.g. Peters 1983; Schmidt-Neilsen 1984; Werner and Gilliam 1984). Body size helps to explain organism distribution across habitats (Larscheid and Hubert 1992), and is a significant factor mediating ontogenetic niche shifts (Werner and Gilliam 1984).

Interspecific and intraspecific competition and predation relationships can change dramatically as an organism grows and its role in a community changes with size (Werner and Gilliam 1984; Stein et al. 1987).

"Bigger-is-better" is a well-documented paradigm in fisheries ecology (Litvak and Leggett 1992; Chambers 1993; Hare and Cowen 1997; Sogard 1997). In young fish, offspring size is associated with intraspecific competitive ability (Abbott et al. 1985), timing of development and ontogenetic behavior shifts (Mikheev et al. 1994), and probability of survival through early stages of development (Elliott 1989; Elliott 1990; Smith and Griffith 1994), and first winter (Hunt 1969; Werner 1984; Holtby 1988; Quinn and Peterson 1996), and as reviewed in Reznick (1981) and Werner and Gilliam (1984). Miller et al. (1988) proposed a framework based on fish size that integrates observed relationships between juvenile fish ecology and survival and recruitment.

However, the bigger-is-better paradigm documented in larval fish and other literatures may be oversimplified and/or result from study design limitations. Leggett and Deblois (1994) evaluated size-dependent predation and concluded that focus on larval susceptibility to predation supported the paradigm whereas inclusion of encounter and predator attack probabilities shifted the advantage toward smaller individuals. Litvak and Leggett (1992) found that when age and associated learning was controlled for, predation on larval capelin *(Mallotus villosus)* was size-dependent with larger individuals being the preferred prey. McCormick and Molony (1993) pointed out that many size fitness studies included organisms across ages and therefore developmental states. Under these circumstances, age and associated benefits of learned survival behaviors and advanced physical and physiological condition may

have driven differential survival rather than body size. McCormick and Molony (1993) demonstrated with goatfish (*Upeneus tragula*) larvae that body length way not associated with other fitness characteristics e.g. body fat and carbohydrate content, Fulton's condition factor, growth rate, or burst swimming speed.

Big *may not always* be better; in some situations, small may be best. In agreement with Litvak and Leggett's (1992) finding that larger prey may be preferred, Harvey and Stewart (1991) and Power (1987) found that larger individuals may be preferred by avian and terrestrial predators. They may also be slower to leave cover and resume feeding after predator threat, limiting growth potential as their fitness value increases with increasing size (Grant and Noakes 1987; Reinhardt and Healey 1999). In addition, actively feeding and recently fed juveniles may incur increased vulnerability to and higher mortality from predators (Lankford et al. 2001). Nielsen (1994) found that coho salmon with relatively slow somatic growth contributed more energy to immature eggs than did average or fast-growing individuals. Whether early energy contribution to egg formation leads to increased fecundity has not been demonstrated, however (Nielsen 1994).

There may be no one best size: size variation has value as well. Niche separation through morphological or behavioral diversification is a well-accepted paradigm of competition theory (e.g. Skulason and Smith 1995; Landry et al. 1999) and size-based or ontogenetic niche shifts are well-documented (Werner and Gilliam 1984; Mittelbach and Chesson 1987; Erkinaro et al. 1997; Ruzycki and Wurtsbaugh 1999). Examples of feeding diversification include Bozek et al.'s (1994) finding that size classes corresponding to year classes of Colorado River cutthroat trout consumed

different taxa and different sizes of food items. Similar diet differentiation may occur within size classes, as well. Inferior competitors may switch tactics to maintain fitness. Metcalfe et al. (1988) found that age 0 Atlantic salmon diverged in their feeding strategy in late summer, with some individuals demonstrating increased appetite and some with decreased appetite. Size divergence going into winter resulted, potentially reducing competition for overwintering habitats and limited food supplies during a stressful time period and reducing overwintering mortality of the less competitive individuals. Jonsson et al. (1988) found four phenotypes of Arctic char (*Salvelinus alpinus*) in Lake Thingvallavatn, Iceland, based on body size and food preference. Piscivorous and planktivorous individuals belonged to the same gene pool; piscivorous individuals were likely faster growing recruits from the juvenile planktivorous population. In this system, competition among individuals may have been reduced through trophic differentiation. Similarly, Taylor and Bentzen (1993) concluded that size differentiated smelt (*Osmerus mordax*; "dwarf" and "normal-sized") diverged sympatrically into planktivorous and piscivorous feeders, potentially to reduce foraging competition. Although larger individuals may have feeding advantages in some circumstances, since they are more apt to win in competitive interactions, hold territories that provide a food supply (Keeley and McPhail 1998) and are able to consume a wider size range of prey (Grossman 1980), smaller individuals may be advantaged during food shortages since food requirements are lower (Persson 1985; Hamrin and Persson 1986).

Reduction in competition through size-mediated habitat differentiation has also been documented. Juvenile Arctic char shifted from epibenthic to pelagic habitats,

correlated with individual and predator size (L'Abee-Lund et al. 1993), and Nielsen (1992) identified four phenotypes of coho salmon *(Oncorhynchus kisutch)* differentiated by size, habitat, behavior, and growth rate. Habitats used by the four phenotypes were the thalweg, margin and backwater areas, cutbank margins, and shifting estuarine habitats. Growth rates and fitness differed between habitats; however, diversification allowed slower-growing individuals an alternative strategy for growth in an environment with reduced competition. Although large size has been associated with increased fitness, (Gross 1985) concludes that the smaller jack Pacific salmon (*Oncorhynchus* spp.) males may enjoy fitness equal to larger males by using a sneaker strategy rather than the fighting strategy employed by larger males. Intermediate-sized males are at a competitive disadvantage since they are less successful at either strategy.

Size variation may provide benefits to a population. Variation may provide recruitment stability and long-term survival in a variable environment (den Boer 1968; Lomnicki 1980). Good et al. (2001) found size-selective mortality to operate on smaller Atlantic salmon fry during one year and on larger fry the next year, suggesting no one size may be selected for in variable environments. Variation in body size may be an important characteristic of a population, allowing maintenance of greater abundances through competitive segregation, as found by Chandler and Bjornn (1988) with juvenile steelhead. Conversely, populations with limited size variation may be more vulnerable to size-dependent disturbances and more unstable in highly variable environments.

Fish size variation can be generated by genetic or environmental mechanisms (Kirpichnikov 1981; Berven and Gill 1983; McDowall 1994). Genetic components of fish growth have been documented by Gjedrem (1976), Reznick (1981), Sumpter

data). However, hybridization between rainbow and cutthroat trout has been associated with reduced, rather than increased growth. Allendorf and Leary (1988) demonstrated that westslope cutthroat F1 hybrids grew 16.21% less than pure westslope cutthroat trout by the time pure fish reached 40 mm, and Hawkins and Foote (1998) found that coastal cutthroat steelhead hybrids had reduced early growth and survival compared to parental stock. Rainbow trout also develop more slowly than do cutthroat trout, so that in spite of potentially earlier emergence, age 0 hybrids may not have a size advantage over pure cutthroat trout (Hawkins and Foote 1998). For these reasons, it appears unlikely that rainbow trout introgression explains size patterns observed in our study.

Size differences were identified at three spatial scales, with most variation found at the area scale. Although adult westslope cutthroat trout are known to vary dramatically in size, most variation is attributed to differences in contribution between adfluvial, fluvial, and resident populations (Averett and MacPhee 1971; Shepard et al. 1984). Few studies of size variation in age 0 fish size have been conducted. Unlike our findings, Shepard et al. (1984) examined age 0 westslope cutthroat trout growth in tributaries of the Flathead River, Montana, and concluded that growth was similar among tributaries. Our results suggest that adjacent streams can be similar or vastly different depending on the nature of their environments. Differences in age 0 size among nearby streams may be due to subtle differences in temperature but are more likely a function of variables e.g. productivity that appeared to vary substantially at the stream scale. Size differences among areas can be explained by differences in temperature.

Size variation occurred primarily at the area scale. We were less effective at identifying potential causative mechanisms for size variation than we were for mean size. Although temperature appears to be associated with size variation, it was not identified as a significant variable at the area scale, although elevation explained 76.8% of the variation in CIQR. Cold environments appear to be more likely to produce homogeneously small fish. Theoretically, warm productive environments should produce homogeneously large fish within physiological and genetic constraints. However, highly- to moderately productive environments likely contain within them subgradients of productivity such that the homogeneously large fish population is never realized and a population of variable size results. Size variation within a site should be correlated with habitat complexity (Baltz et al. 1991), and habitat characteristics affecting competition (e.g. density) and predation (Power 1987) should determine size variation.

Several mechanisms may explain the observed pattern of increasing size variation downstream. Age 0 salmonids are highly mobile in both upstream and downstream directions, likelihood of movement does not appear to be size-based, and distance moved is greater downstream than upstream, particularly in small, high gradient streams (Kahler 1999). It is possible that smaller age 0 individuals from upstream might reach and therefore contribute to size diversity at lower sites, and less likely that larger individuals would accomplish upstream movement into upper sites in numbers sufficient to influence population size structure. In several streams, we sacrificed age 0 fish rather than replacing them in the stream after measurement. Temporal sampling at these sites to document growth during the sampling period

suggests that migration downstream was occurring, since age 0 abundances in sample reaches did not appear to decline after 3 or 4 collections. Varying temperature with elevation could produce a longitudinal size variation gradient within a stream through several mechanisms. The simplest, an instream temperature gradient, is supported by our temperature data. Temperature may also affect timing and duration of emergence. We observed age 0 fish at lower sites to emerge 9-15 days earlier than at upper sites. Early emergence and more productive environments may also explain the observed longitudinal size gradient within a stream. Increased growth associated with higher temperatures at lower elevations may also allow for an extended emergence period within lower sites, since later emergents may be able to achieve sufficient size for overwinter success at lower elevations. At our sites, differences in size variation were due primarily to larger individuals present at more productive sites. Minimum size at productive and unproductive sites was more similar, which could be a function of late but could also be a result of migration from upstream. Finally, longitudinal changes in e.g. gradient, substrate, valley width, and sinuosity may produce a longitudinal habitat complexity gradient, potentially promoting size diversification within lower sites.

Size variation can be produced by environmental or genetic variation. Most genetic variation in westslope cutthroat trout occurs between streams or adjacent populations (Allendorf and Leary 1988). With this genetic structure, control of phenotypic variation by genetic variation could produce a size variation pattern similar to what we observed, with most variation between streams and no pattern at the area scale. The CDA drainage, however, appears to have different genetic structuring from most other westslope cutthroat trout populations (Spruell et al. 1999; B. Rieman,

unpublished data), with relatively little genetic variation between streams and most within streams, streams being relatively similar genetically across the drainage. Known genetic structuring of CDA populations would not be expected to produce the size variation pattern we observed of variation primarily at the area scale. Even the within stream variation (site scale) we observed would not be expected with the genetic structuring of the CDA since longitudinal patterns in genetic diversity have not been demonstrated. The phenotypic patterning we observed in age 0 fish can most easily be explained by the phenotypic plasticity characteristic of *Oncorhynchus* spp. (Thorpe 1989; Taylor 1991; Healey and Prince 1995) in response to the pattern of productivity gradients we observed within the CDA.

Fish density is generally thought to reduce growth rates and limit individual size (Van Den Avyle 1993). One would therefore expect density to be inversely correlated with fish size. We found the opposite in a simple regression analysis with only density, and found no significant relationship with CLen when density was analyzed with productivity gradients. However, density may also increase competitive pressure and therefore encourage phenotypic diversification. Our results suggest that although density does not appear to be limiting fish size, density may be limiting growth rate. Growth rate is negatively correlated with body size (Ricker 1979). It is not clear whether density or fish size best explains the reduced growth rate of lower, warmer, more productive streams in our study. If density is limiting growth, system productivity may be compensating for density limitation of fish growth in these streams, and high fish density in unproductive streams such as the upper site of Tom Lavin Creek may compound growth rate limitations of an unproductive environment.

Elevation and aspect both directly affect temperature, yet Pearson's correlations between these variables were not high. Elevation and aspect may provide information about instream temperature conditions, e.g. length of day and length of growth season not expressed in our measure of temperature. L'Abee-Lund et al. (1989) found a relationship between water temperature and growing season length. Elevation may also affect water temperature by influencing valley width and channel form. Based on our findings, instream temperature obtained from seasonally placed instream recorders fails to capture meaningful aspects of a fish's thermal environment. Elevation was most effective at predicting fish size. However, on a stream by stream basis, elevation will fail to provide accurate information regarding fish size in some instances. For example, Coal Creek is primarily groundwater-fed and in spite of being low within our study area, was one of the colder of our study streams.

Processes maintaining diversity within species may occur at different scales, and conservation of that diversity depends on consideration of those differences (May 1994). Elucidation of fish population structure through examination of genetic and phenotypic variation within and between populations can help to define meaningful units for conservation (Lomnicki 1980). Patterns common in westslope cutthroat trout, however, of significant genetic variation at the population/stream scale (Allendorf et al. 1988), are not apparent in the CDA drainage (Knudsen and Spruell 1999; B. Rieman, unpublished data). The examination of size variation in the CDA identified diversity at finer scales than genetic information could provide. If variation in size of age 0 fish leads to important diversity in life history, fuller exploitation of available habitats and ultimately more resilient and productive populations, then maintenance of that variation

will be an important goal for conservation management. The extent of size variation within streams varied within and between areas. If size variation is associated with population resilience, focused attention may be required to identify, understand, and protect streams and systems with naturally low size variation and therefore resilience. If "bigger is better," these same populations with only small individuals may be exceptionally vulnerable to catastrophic events or chronic habitat degradation resulting in small population sizes. Understanding of population structure is critical to conservation goals such as maintenance of gene flow frequencies, potential for local adaptation, and identification of diversity-generating environmental processes.

In order to maintain phenotypic diversity of fishes, the range of environments and habitats that produced that diversity must be maintained (Healey and Prince 1995). We have demonstrated that patterns in size variation are consistent with productivity and temperature gradients likely to influence the growth and size diversification of age 0 westslope cutthroat trout. Further it is apparent that most of the variation in size and important environmental gradients associated with it can not be represented within individual streams or even among streams in one area of a larger basin. Conservation of the potential diversity represented by age 0 size can be conserved only through representation of multiple streams/populations scattered across distinct areas of the basin. Conservation of westslope cutthroat trout across their temperature and elevation ranges may be challenging as current habitat conditions in lower elevation streams and reaches of streams tend to be in poorer condition and introgression rates with rainbow trout may be higher. Consideration of important environmental gradients

may need to be considered when evolutionarily significant units (ESUs) are defined for taxa protected under the U.S. Endangered Species Act.

Although the relationship of size, particularly juvenile size, to survival and life history has been a focus in the literature, empirical relationships of size and variation in size of juvenile westslope cutthroat trout to fitness and the resilience and persistence of whole populations remains to be explored. Size has been associated with overwinter survival and size selective mortality (Hunt 1969; Smith and Griffith 1994) yet one of the coldest, least productive sites included in this study (Tom Lavin Up) has high abundance of relatively uniformly small age 0 westslope cutthroat trout. We don't know whether overwinter survival is size dependent at this site, compensatory growth mechanisms are present (*sensu* Nicieza and Metcalfe 1997), or population stability (*sensu* Lomnicki 1980) or direction of size selective mortality (*sensu* Good et al. 2001) are temporally consistent. Role of age 0 growth in influencing life history type, as suggested by Jonsson and Jonsson (1993), in the CDA, which contains resident, fluvial, and adfluvial individuals, is not understood. In addition, characterizing the role of habitat complexity, including identification of important components and scales, in generating size variation needs to be explored. Although scales and environmental gradients associated with age 0 size structure are important to identify for conservation purposes, other ecological processes and phenotypic traits must be acknowledged, understood, and conserved. Because size drives many aspects of life history, other phenotypic traits and life history characteristics may follow similar patterns to those we observed for size variation. Scales and distribution of spawning gravels and winter refuge habitats, sources of life history types, and disturbance regimes are also

important to conserve. Age 0 size structure should influence many aspects of westslope cutthroat trout life history and population dynamics; understanding the full implications of that variation, however, remains an important challenge.

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Table 1. Daily mean, maximum, and minimum water temperature (°C) and standard deviation (SD) of shaded or sunny age 0 westslope cutthroat trout habitat units and flowing water. N refers to number of HOBO temperature meters averaged for sun and shade locations.

Location	N	Mean	SD Mean	Maximum	SD Max	Minimum	SD Min
Lonesome Creek							
Flow	1	12.82		17.40		9.40	
Sun	3	12.89	0.04	16.30	0.69	9.93	0.23
Shade	3	12.84	0.03	16.93	0.57	9.67	0.23
Tom Lavin Creek							
Flow	1	9.58		10.59		8.70	
Sun	3	9.49	0.08	10.47	0.14	8.62	0.08
Shade	3	9.53	0.05	10.57	0.10	8.64	0.05

Table 2. Streams and regression coefficients used in calculating length correction factor for 2000 and 2001.

Stream/Site	N	Slope	p	R^2
2000				
Cedar Low	3	0.373	0.10	0.95
Cedar Mid	3	0.174	0.06	0.99
Cedar Up	4	0.187	0.15	0.59
Halsey Low	2	0.291		
Iron Low	3	0.209	0.25	0.70
Iron Mid	2	0.258		
Iron Up	2	0.268		
Lonesome Low	3	0.142	0.12	0.93
Lonesome Up	3	0.084	0.03	0.99
Tom Lavin Up	2	0.242		
Yellowdog Low	2	0.497		
Yellowdog Mid	2	0.332		
Yellowdog Up	2	0.291		
2000 Average		0.258		
2001				
Brown Low	4	0.364	0.02	0.98
Cedar Low	4	0.309	0.01	0.99
Cedar Up	3	0.282	0.16	0.94
Coal Low	3	0.352	0.03	1.00
Coal Mid	3	0.289	0.07	0.99
Iron Low	3	0.354	0.01	1.00
Iron Up	3	0.319	0.10	0.98
Lonesome Low	3	0.198	0.02	0.97
Lonesome Up	4	0.144	0.19	0.92
Tom Lavin Up	3	0.189	0.21	0.90
Yellowdog Up	3	0.391	0.18	0.97
2001 Average		0.290		

Table 3. Streams and regression coefficients used in calculating interquartile range correction factor for 2000 and 2001.

Stream/Site	N	Slope	p	R^2
2000				
Cedar Mid	3	0.100	0.34	0.49
Halsey Low	2	0.114		
Iron Low	2	0.060		
Iron Mid	2	0.057		
Iron Up	2	0.096		
Lonesome Up	3	0.033	0.67	0.00
Tom Lavin Up	2	0.053		
Yellowdog Low	2	0.095		
Yellowdog Mid	2	0.100		
Yellowdog Up	2	0.024		
2000 Average		0.073		
Discarded from analyses				
Cedar Low	3	-0.087	0.13	0.92
Cedar Up	3	-0.004	0.89	0.00
Lonesome Low	3	0.006	0.89	0.00
2001				
Brown Low	4	0.060	0.25	0.33
Cedar Low	4	0.111	0.04	0.88
Cedar Up	3	0.097	0.06	0.98
Coal Low	3	0.110	0.08	0.97
Coal Mid	3	0.108	0.32	0.53
Iron Low	3	0.060	0.15	0.89
Iron Up	3	0.084	0.05	0.99
Lonesome Low	4	0.108	0.09	0.73
Lonesome Up	4	0.068	0.29	0.61
Tom Lavin Up	3	0.048	0.13	0.92
2001 Average		0.085		
Discarded from analyses				
Yellowdog Up	2	0.259		

Table 4. Pearson correlation and (probability) matrix for landscape variables.

	Elevation	Headwater Distance	Valley Width
Area	0.156 (0.29)	-0.167 (0.26)	0.075 (0.61)
Elevation		-o.436 (0.002)	-0.198 (0.18)
Headwater Distance			0.597 (0.0001)

Table 5. Regression model results for CLen at site, stream, and area scales, with instream productivity gradients (conductivity, temperature), and landscape variables (aspect, elevation, headwater distance, valley width). Significance level to enter and stay in model, $p < 0.10$.

Scale	Model Component	Slope	Partial R^2	p	N
SITE	***Instream***				
	Temperature	2.51	0.332	< 0.007	
	Conductivity	0.081	0.248	< 0.005	
	MODEL		0.581	< 0.0004	21
	Landscape				
	Elevation	0.251	0.243	< 0.0004	
	Aspect	-0.007	0.053	< 0.08	
	MODEL		0.296	< 0.0004	48
STREAM	***Instream***				
	Temperature	1.83	0.305	<0.10	
	Conductivity	0.063	0.280	<0.07	
	MODEL		0.586	<0.05	10
	Landscape				
	Aspect	0.44	0.160	<0.09	
	Elevation	-0.016	0.158	<0.08	
	MODEL		0.317	<0.05	19
AREA	***Instream***				
	Temperature/MODEL	1.61	0.687	<0.09	5
	Landscape				
	None able to enter model				6

Table 6. Regression model results for CIQR at site, stream, and area scales, with instream productivity gradients (conductivity, temperature), and landscape variables (aspect, elevation, headwater distance, valley width). Significance level to enter and stay in model, $p < 0.10$.

Scale	Model Component	Slope	Partial R^2	p	N
SITE	***Instream***				
	None able to enter model				21
	Landscape				
	Elevation/MODEL	-0.004	0.254	< 0.0003	48
STREAM	***Instream***				
	Temperature/MODEL	0.977	0.335	<0.08	10
	Landscape				
	Elevation/MODEL	-0.012	0.352	<0.008	19
AREA	***Instream***				
	None able to enter model				5
	Landscape				
	Elevation/MODEL	-0.016	0.768	<0.03	6

Table 7. Mean (SD) corrected total length (CLen) and corrected interquartile range (CIQR) differences of age 0 westslope cutthroat trout between sites, 2000-2001. L=lower site, M=middle site, U=upper site.

Section	CLen difference (mm)	CIQR difference (mm)	N
L-M	2.67 (4.23)	0.64 (4.10)	15
M-U	2.94 (4.85)	2.57 (3.34)	13
L-U	5.23 (4.92)	2.78 (3.07)	14

Figure legends

Figure 1. Study area in the Coeur d' Alene River basin, northern Idaho, U.S.A., 2000-2001.

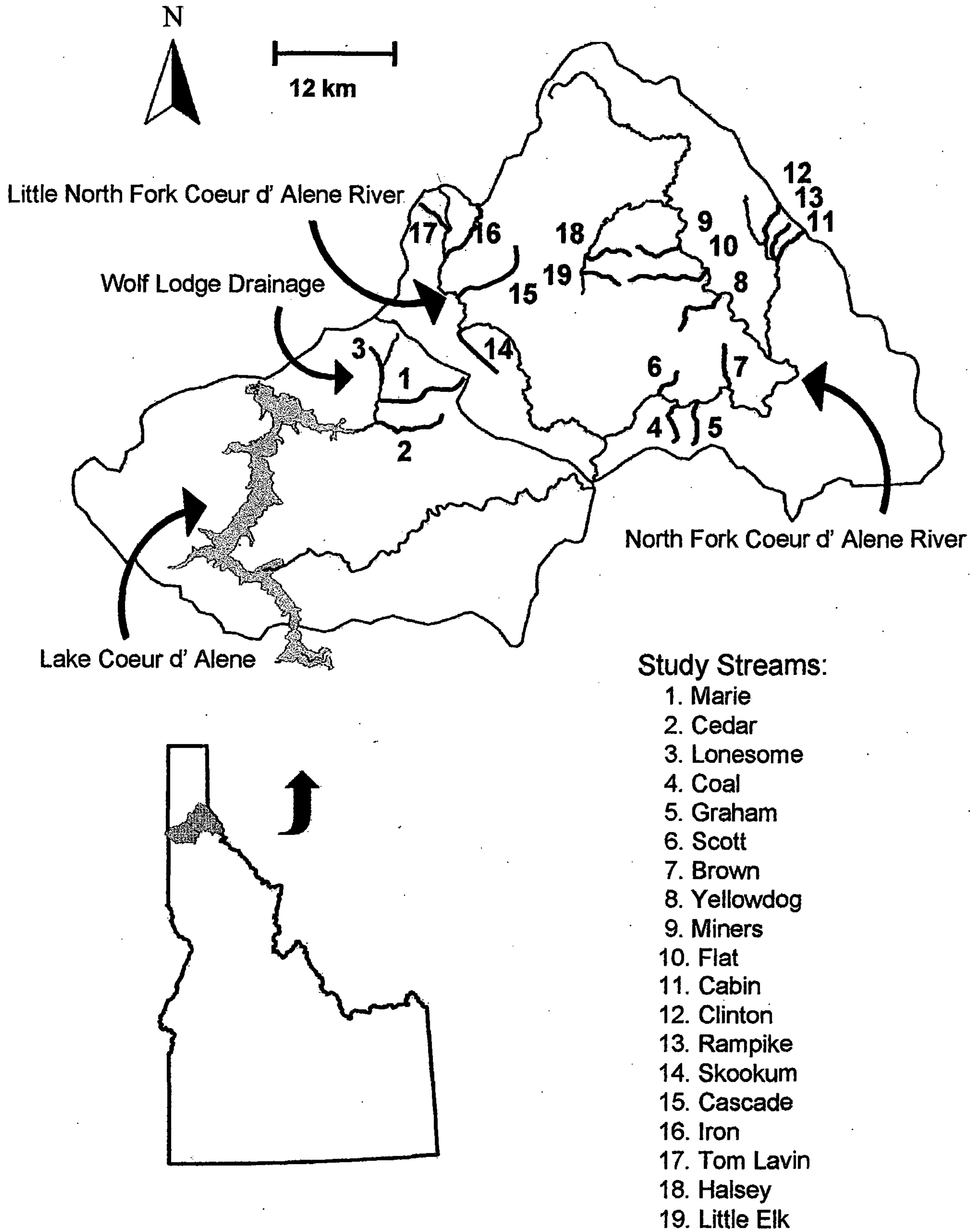
Figure 2. Study design at three spatial scales: Area, Stream, and Site. Study streams are located in six areas as indicated.

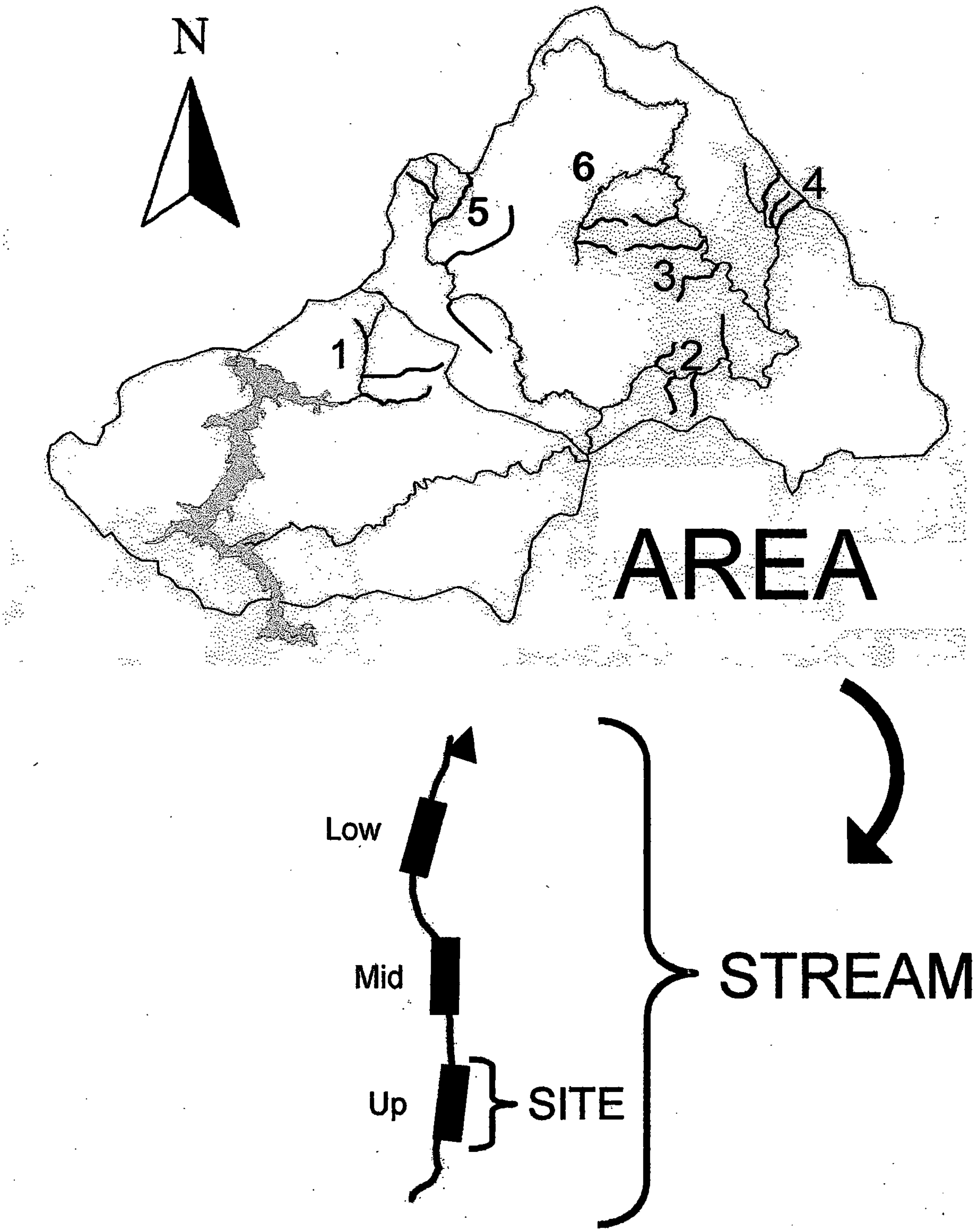
Figure 3. Distribution of variation in a) corrected total length (CLen) and b) corrected interquartile range (CIQR) of total length of age 0 westslope cutthroat trout, Coeur d' Alene River drainage, 2000-2001. CLen has an additional scale of variation, within site.

Figure 4. Boxplots of corrected total length (CLen) of age 0 westslope cutthroat trout, Coeur d' Alene River drainage, 2000-2001, at a) area, b) stream, and c) site scales. Areas, streams within areas, and sites are ordered by elevation (streams are therefore not ordered by elevation across areas since areas overlap in elevation). Stream numbers are as listed in Figure 1. Sample size is indicated at the top of a) for all areas and on top of specific data bars where N is other than 3 in b). Midline within each box represents mean length; boxes represent inner and outer quartiles; vertical lines represent inner and outer 10th percentiles.

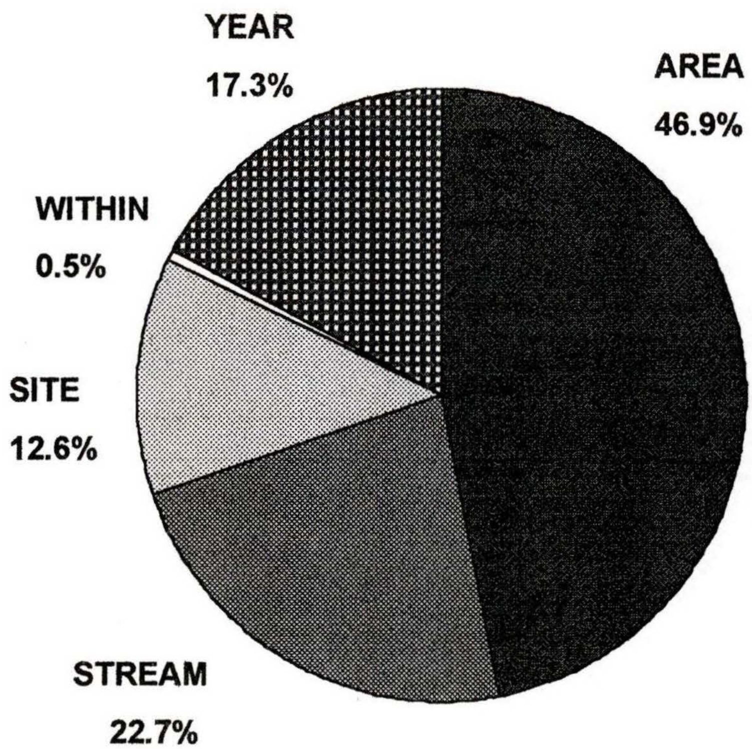
Figure 5. Boxplots of corrected interquartile range (CIQR) of total length of age 0 westslope cutthroat trout, Coeur d' Alene River drainage, 2000-2001, at a) area, b) stream, and c) site scales. Graphing conventions are as described in Figure 4.

Figure 6. Distribution of variation in corrected total length (CLen) and corrected interquartile range (CIQR) of total length of westslope cutthroat trout, instream productivity variables, and landscape variables in the Coeur d' Alene River drainage, 2000-2001. Cond = conductivity, temp = temperature, elev = elevation, hdist = headwater distance, and vwidth = valley width.

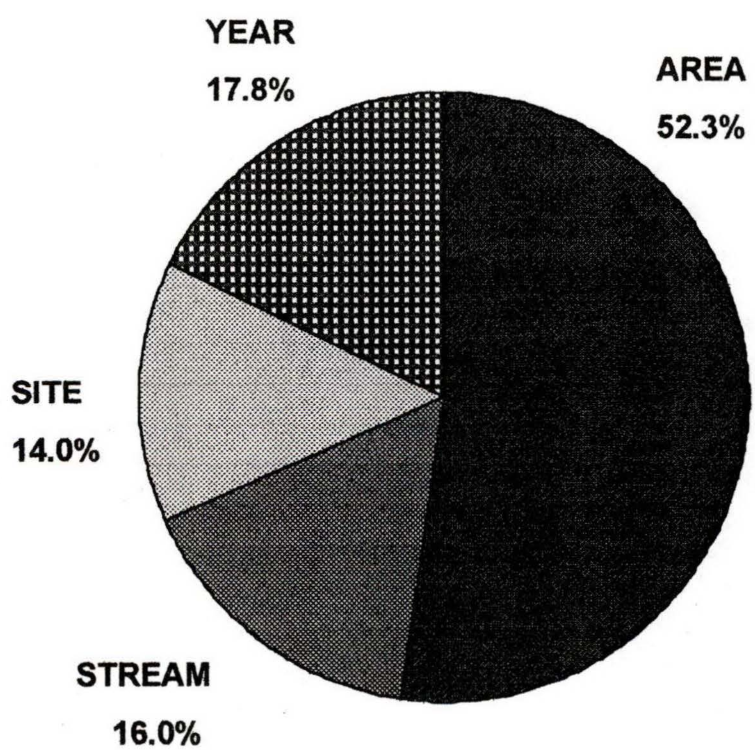

N
12 km
Little North Fork Coeur d' Alene River
Wolf Lodge Drainage
Lake Coeur d' Alene
North Fork Coeur d' Alene River
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
Study Streams:
1. Marie
2. Cedar
3. Lonesome
4. Coal
5. Graham
6. Scott
7. Brown
8. Yellowdog
9. Miners
10. Flat
11. Cabin
12. Clinton
13. Rampike
14. Skookum
15. Cascade
16. Iron
17. Tom Lavin
18. Halsey
19. Little Elk


N
1
2
3
4
5
6
AREA
Low
Mid
Up
SITE
STREAM

a)


YEAR
17.3%
AREA
46.9%
WITHIN
0.5%
SITE
12.6%
STREAM
22.7%

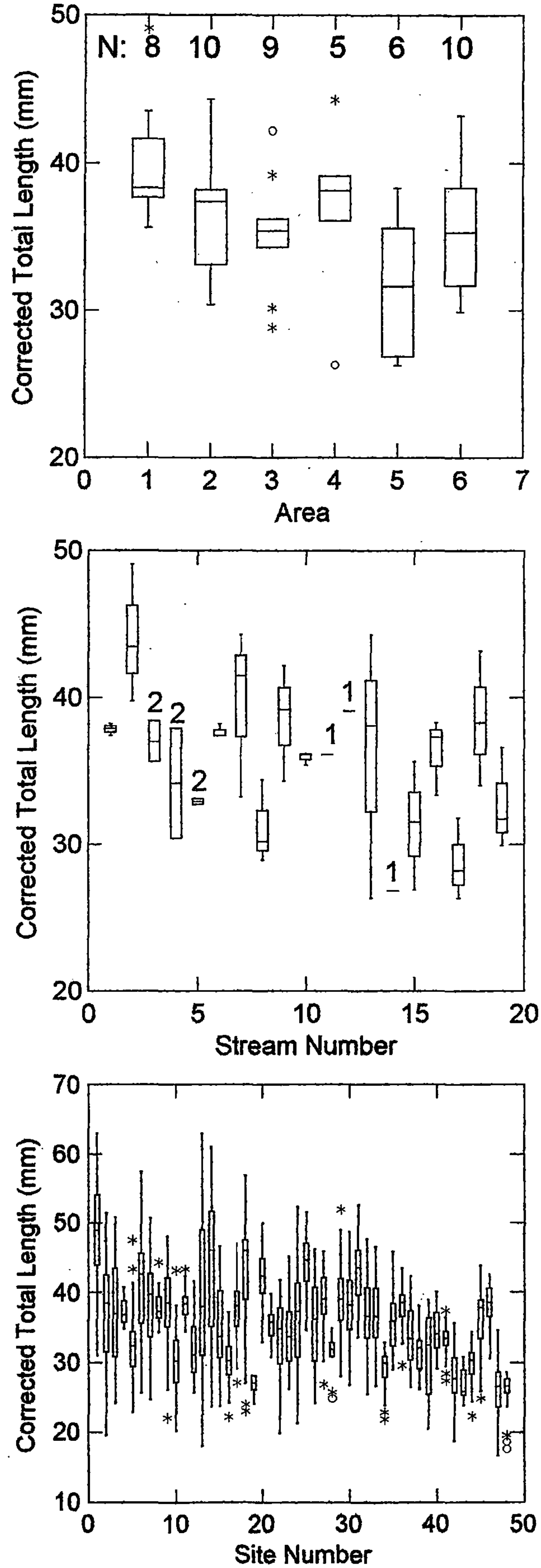
b)


YEAR
17.8%
AREA
52.3%
SITE
14.0%
STREAM
16.0%

a)

b)

c)

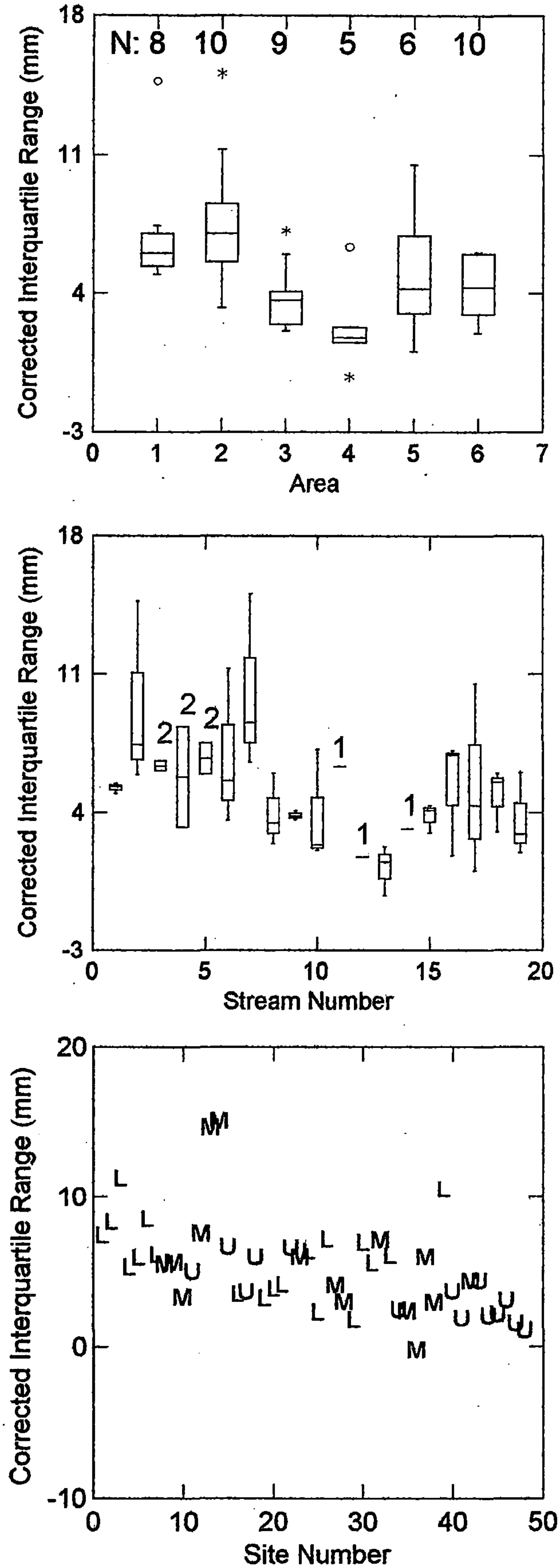


N: 8 10 9 5 6 10
Corrected Total Length (mm)
Area
Corrected Total Length (mm)
Stream Number
Corrected Total Length (mm)
Site Number

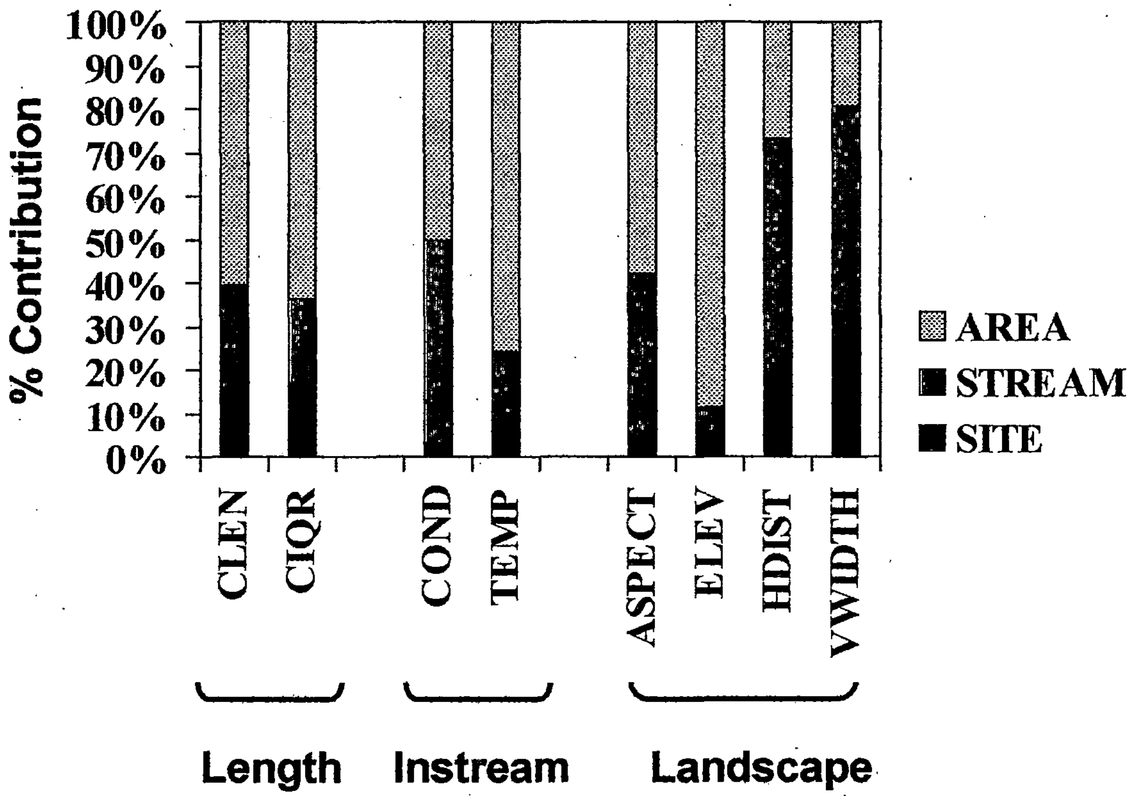
a)

b)

c)



N: 8 10 9 5 6 10
Corrected Interquartile Range (mm)
Area
2 2 2 1 1 1
Stream Number
Site Number



% Contribution
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
CLEN
CIQR
COND
TEMP
ASPECT
ELEV
HDIST
VWIDTH
AREA
STREAM
SITE
Length
Instream
Landscape

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APPENDIX III – Datafiles

Appendix III A. ScalePat00_02.xls

BACKGROUND AND METHODS
See Appendix II for discussion of background, methods, and results.

<u>Worksheets</u>:

Scalepat0001 – environmental variables and length data used in analyses presented in Appendix II.
Metascalepat – metadata for scalepat0001
Fishdat02 – raw data for all fish collected during 2002, including location, body size, other fish sample information, and collection of tissue, otolith samples, storage of carcass
Metadat02 – metadata for fishdat02
Fishdat01 - raw data for all fish collected during 2001, including location, body size, other fish sample information, and collection of tissue, otolith samples, storage of carcass
Metadat01 - metadata for fishdat01
Fishdat00 - raw data for all fish collected during 2000, including location, body size, other fish sample information, and collection of tissue, otolith samples, storage of carcass
Metadat00 - metadata for fishdat00

YEAR	JULDATE	AREA	STREAM	SITE	TOTLEN	CLEN	IQR	CIQR	ASPECT	COND	ELEV	ELEVMET	HDIST	TEMP_YR	VWIDTH
2000	241	2	BROWN	LOW	46.7	41.5	10.00	8.54	16	71.5	2400	732	5295	11.3	65
2000	242	2	BROWN	MID	49.7	44.3	16.63	15.10	14	61.0	2640	805	3416	10.7	37
2000	241	2	BROWN	UP	38.3	33.2	8.00	6.54	14	62.5	2880	878	1708	9.9	11
2000	278	4	CABIN	LOW	50.8	36.1	10.50	6.34	16	41.0	2900	884	4758	.	15
2000	256	1	CEDAR	LOW	58.2	49.1	10.00	7.44	11	78.0	1920	585	8394	14.0	51
2000	256	1	CEDAR	MID	48.8	39.8	17.25	14.70	11	123.0	2600	792	3880	.	18
2000	256	1	CEDAR	UP	52.6	43.5	8.50	5.94	11	45.0	2720	829	2684	12.5	28
2000	279	4	CLINT	LOW	54.1	39.1	6.00	1.77	16	36.0	3040	927	5441	.	125
2000	254	2	COAL	LOW	46.4	37.9	10.76	8.35	4	6.0	2170	661	5636	9.5	32
2000	255	2	COAL	MID	39.2	30.4	5.75	3.27	1	6.0	2540	774	4782	8.6	15
2000	263	3	FLAT	LOW	46.3	35.4	10.25	7.18	8	52.0	3000	914	7125	.	34
2000	264	3	FLAT	MID	47.3	36.2	5.50	2.36	6	47.0	3200	975	5539	.	12
2000	264	3	FLAT	UP	47.2	36.1	5.25	2.11	8	69.0	3400	1036	3928	.	15
2000	207	2	GRAM	LOW	29.5	33.1	4.94	5.96	1	19.0	2320	707	7003	.	101
2000	207	2	GRAM	MID	29.0	32.7	6.52	7.54	3	26.0	2560	780	4929	.	75
2000	234	5	HALS	LOW	46.6	43.2	6.50	5.55	5	78.0	3080	939	6783	10.5	54
2000	235	5	HALS	MID	37.6	34.0	7.00	5.98	15	75.0	3240	988	4782	.	75
2000	234	5	HALS	UP	41.6	38.3	4.00	3.05	7	75.0	3400	1036	3440	9.3	15
2000	222	6	IRON	LOW	38.5	38.3	7.00	6.93	13	62.5	3050	930	8491	10.4	223
2000	222	6	IRON	MID	37.6	37.3	7.19	7.11	16	57.0	3120	951	6905	.	86
2000	223	6	IRON	UP	33.8	33.3	2.00	1.85	16	53.0	3330	1015	5246	9.7	14
2000	234	5	L_ELK	LOW	39.9	36.6	7.00	6.05	11	102.0	3120	951	7320	9.6	30
2000	236	5	L_ELK	MID	35.6	31.7	4.00	2.91	9	115.0	3280	1000	3172	8.8	84
2000	235	5	L_ELK	UP	33.5	29.9	3.00	1.98	11	120.0	3360	1024	2196	.	26
2000	226	6	LAVIN	LOW	33.1	31.8	10.88	10.52	11	12.0	3280	1000	4612	9.5	36
2000	230	6	LAVIN	MID	30.5	28.2	5.00	4.34	12	12.0	3330	1015	3318	.	32
2000	234	6	LAVIN	UP	29.6	26.3	2.00	1.05	10	13.0	3640	1109	2342	8.9	19
2000	257	1	LONE	LOW	47.7	38.4	8.75	6.12	14	20.0	2400	732	3587	.	68
2000	257	1	LONE	UP	44.8	35.6	9.25	6.62	12	22.0	2640	805	2611	.	19
2000	237	3	MINERS	LOW	46.3	42.2	5.00	3.83	6	102.0	2760	841	5173	9.4	31
2000	236	3	MINERS	MID	43.1	39.2	5.19	4.09	2	106.0	3000	914	3782	9.0	24
2000	236	3	MINERS	UP	38.2	34.3	4.75	3.66	8	118.0	3280	1000	2318	.	16
2000	265	4	RAMP	LOW	55.7	44.3	5.50	2.29	14	39.0	2920	890	5954	.	45
2000	265	4	RAMP	MID	49.4	38.1	3.00	-0.21	16	34.0	3200	975	4148	.	24
2000	269	4	RAMP	UP	38.7	26.3	5.00	1.50	15	28.0	3600	1097	2440	.	15
2000	237	2	SCOTT	LOW	41.5	37.4	12.44	11.28	16	57.0	2200	671	4148	10.7	25
2000	240	2	SCOTT	MID	43.1	38.2	7.00	5.61	13	57.0	2440	744	3294	10.0	13
2000	240	2	SCOTT	UP	42.3	37.4	5.00	3.61	16	61.0	2680	817	2562	.	5
2000	228	3	YELLOW	LOW	32.0	30.2	4.00	3.49	2	14.0	2650	808	7466	12.0	6

2000	228	3	YELLOW	MID	36.2	34.4	6.50	5.99	6	17.0	2880	878	5026	11.0	74
2000	229	3	YELLOW	UP	31.0	28.9	3.00	2.42	7	16.0	3160	963	3367	.	36
2001	226	2	BROWN	LOW	42.5	41.0	9.75	9.33	16	71.5	2340	713	5832	10.0	65
2001	226	2	BROWN	MID	37.1	35.6	8.00	7.58	14	61.0	2520	768	3489	9.2	37
2001	225	2	BROWN	UP	33.9	32.7	4.00	3.66	14	62.5	2880	878	1708	8.7	11
2001	214	4	CABIN	LOW	33.6	35.6	7.29	7.89	16	41.0	2900	884	4758	.	15
2001	208	6	CASC	LOW	31.8	35.6	3.00	4.11	15	39.0	2830	863	7149	.	68
2001	208	6	CASC	MID	27.8	31.5	1.87	2.98	11	37.0	3030	924	4587	.	15
2001	211	6	CASC	UP	24.0	26.9	3.50	4.35	15	28.0	3350	1021	2074	.	35
2001	222	1	CEDAR	LOW	46.0	45.7	7.75	7.67	11	78.0	1920	585	8394	12.6	51
2001	222	1	CEDAR	MID	50.0	49.7	7.50	7.42	11	123.0	2600	792	3880	12.5	18
2001	225	1	CEDAR	UP	39.4	38.2	7.00	6.66	11	45.0	2720	829	2684	10.1	28
2001	213	4	CLINT	LOW	32.2	34.5	3.50	4.18	16	36.0	3040	927	5441	.	125
2001	229	2	COAL	LOW	34.8	32.4	6.00	5.32	4	6.0	2170	661	5636	8.8	32
2001	228	2	COAL	MID	31.0	28.9	7.50	6.91	1	6.0	2540	774	4782	8.4	15
2001	214	3	FLAT	LOW	30.3	32.3	5.50	6.10	8	52.0	3000	914	7125	.	34
2001	220	5	HALS	LOW	43.9	44.2	5.00	5.09	5	78.0	3080	939	6783	.	54
2001	219	6	IRON	LOW	34.2	34.8	4.78	4.95	13	62.5	3050	930	8491	9.1	223
2001	219	6	IRON	MID	34.2	34.8	5.00	5.17	16	57.0	3120	951	6905	8.3	86
2001	219	6	IRON	UP	28.2	28.8	2.00	2.17	16	53.0	3330	1015	5246	8.3	14
2001	227	6	LAVIN	LOW	35.9	34.2	4.00	3.49	11	12.0	3280	1000	4612	8.7	36
2001	227	6	LAVIN	MID	34.2	32.4	2.00	1.49	12	12.0	3330	1015	3318	8.3	32
2001	227	6	LAVIN	UP	32.6	30.9	4.00	3.49	10	13.0	3640	1109	2342	7.7	19
2001	221	1	LONE	LOW	35.2	35.2	4.00	4.00	14	20.0	2400	732	3587	10.9	68
2001	221	1	LONE	UP	37.2	37.2	6.50	6.50	12	22.0	2640	805	2611	10.2	19
2001	194	1	MARIE	LOW	29.6	37.4	3.00	5.30	13	19.0	2240	683	13957	.	188
2001	192	1	MARIE	MID	29.5	37.9	3.00	5.47	7	17.0	2420	738	11419	.	65
2001	192	1	MARIE	UP	29.8	38.2	2.50	4.97	5	18.0	2550	777	9467	.	59
2001	207	6	SKOOK	LOW	22.7	26.8	2.00	3.19	3	15.0	2740	835	4734	.	66
2001	211	3	YELLOW	LOW	38.8	41.7	6.00	6.85	2	14.0	2650	808	7466	10.7	6
2001	229	3	YELLOW	MID	37.2	34.9	6.00	5.32	6	17.0	2880	878	5026	9.8	74
2001	228	3	YELLOW	UP	28.6	26.6	6.75	6.16	7	16.0	3160	963	3367	8.2	36

ScalePat00_02.xls: METASCALEPAT

YEAR	year of collection
JULDATE	day of the year
AREA	1=WOLF LODGE TRIBS, 2=LOWER NFKCDA TRIBS, 3= MID NFKCDA TRIBS, 4=SHOSHONE
	CREEK TRIBS, 5=TEEPEE CREEK TRIBS, 6=LITTLE NORTH FK TRIBS
STREAM	STREAM NAME
SITE	LOW, MID, UP RELATIVE TO OTHER SITES WITHIN STREAM
TOTLEN	fish total length (mm)
CLEN	corrected total length (mm)
IQR	interquartile range of total length (mm)
CIQR	corrected interquartile range of total length (mm)
ASPECT	solar aspect on a scale of reversed Day scores, 1-18 where 1=NE, 18=SW, see Day (1974)
COND	conductivity (micromhos)
ELEV	elevation from topo map (ft)
ELEVMET	elevation (meters)
HDIST	headwater distance (meters)
TEMP_YR	average daily temperature (C) within year
VWIDTH	valley width (meters)

DATE	AREA	STREAM	SITE	BATCH#	SPS	FISH#	OTO#	TOTLEN	FKLEN	AGE0?	ALLWCT?	MORT?
04/29/02	2	BROWN	LOW	1	WCT	1	1-02	73	69	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	2	2-02	73	68	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	3	3-02	68	64	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	4	4-02	65	62	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	5	5-02	60	57	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	6	6-02	54	52	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	7	7-02	55	53	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	8	8-02	64	60	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	9	9-02	63	60	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	10	10-02	68	64	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	11	11-02	47	45	N	N	Y
04/29/02	2	BROWN	LOW	1	WCT	12	12-02	84	79	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	13	13-02	66	63	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	14	14-02	67	64	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	15	15-02	57	55	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	16	16-02	64	60	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	17	17-02	78	75	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	18	18-02	47	45	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	19	19-02	57	54	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	20	20-02	72	68	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	21	21-02	56	53	N	N	Y
04/29/02	2	BROWN	LOW	2	WCT	22	22-02	70	66	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	23	23-02	60	56	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	24	24-02	54	50	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	25	25-02	79	74	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	26	26-02	68	64	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	27	27-02	72	68	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	28	28-02	67	63	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	29	29-02	63	59	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	30	30-02	61	57	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	31	31-02	61	57	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	32	32-02	60	57	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	33	33-02	59	56	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	34	34-02	92	87	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	35	35-02	75	70	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	36	36-02	67	63	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	37	37-02	56	53	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	38	38-02	66	62	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	39	39-02	63	59	N	N	Y
04/29/02	2	BROWN	LOW	3	WCT	40	40-02	75	70	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	1	1-02	56	55	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	2	2-02	41	39	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	3	3-02	58	56	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	4	4-02	50	48	N	N	Y

06/22/02	6	TOM_LAVIN	UP	1	WCT	5	5-02	43	41	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	6	6-02	46	44	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	7	7-02	55	53	N	N	Y
06/22/02	6	TOM_LAVIN	UP	1	WCT	8	8-02	52	50	N	N	Y
06/22/02	6	TOM_LAVIN	UP	2	WCT	9	9-02	86	81	N	N	Y
06/22/02	6	TOM_LAVIN	UP	2	WCT	10	10-02	54	52	N	N	Y
06/22/02	6	TOM_LAVIN	UP	2	WCT	11	11-02	55	53	N	N	Y
06/22/02	6	TOM_LAVIN	UP	2	WCT	12	12-02	65	63	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	13	13-02	85	81	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	14	14-02	57	54	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	15	15-02	62	60	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	16	16-02	49	47	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	17	17-02	81	77	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	18	18-02	53	51	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	19	19-02	74	70	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	20	20-02	51	49	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	21	21-02	57	54	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	22	22-02	56	54	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	23	23-02	52	50	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	24	24-02	47	45	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	25	25-02	41	40	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	26	26-02	52	51	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	27	27-02	86	81	N	N	Y
06/22/02	6	TOM_LAVIN	UP	3	WCT	28	28-02	57	54	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	29	29-02	50	48	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	30	30-02	46	44	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	31	31-02	46	44	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	32	32-02	40	39	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	33	33-02	49	47	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	34	34-02	55	53	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	35	35-02	59	57	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	36	36-02	38	37	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	37	37-02	42	41	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	38	38-02	47	45	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	39	39-02	52	50	N	N	Y
06/22/02	6	TOM_LAVIN	UP	4	WCT	40	40-02	47	45	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	41	41-02	49	47	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	42	42-02	54	52	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	43	43-02	46	44	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	44	44-02	46	44	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	45	45-02	50	48	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	46	46-02	47	45	N	N	Y
06/22/02	6	TOM_LAVIN	UP	5	WCT	47	47-02	57	55	N	N	Y

ScalePat00_02.xls: METADAT02

DATE	Collection Date
AREA	One of six collection areas within the study site:
	1= Wolf Lodge Creek drainage (Cedar,Marie,Lonesome)
	2= lower NFK CDA (Brown,Scott,Graham,Coal)
	3= middle NFK CDA (Flat,Yellowdog,Miners)
	4= Shoshone Creek drainage (Cabin,Clinton,Rampike)
	5= Teepee Creek drainage (Halsey, Little Elk)
	6= Little NFK CDA (Tom Lavin,Iron,Cascade,Skookum)
STREAM	Stream name
SITE	Location within stream, see methods section of accompanying text & maps
BATCH#	fish collected in batches, numbered from downstream to upstream, within collection date
FISH#	sample number, unique within collection date, stream, and site
OTO#	sample number, format fish#-year
TOTLEN	total length (mm)
FKLEN	fork length (mm)
ALLWCT?	yes if all wct were being collected and collection size structure therefore representative of population, no if only certain sizes were targeted
MORT?	yes if fish sacrificed for otoliths, or accidental mortality. No if fish returned alive to stream

ScalePat00_02.xls: FISHDAT01: Page 1

DATE	JULDATE	AREA	STREAM	SITE	BATCH	SPECIES	FISH#	OTO#	TOTLEN	FKLEN	YOY	WCT	MORT	MILT
05/31/01	151	2	COAL	LOW	2	WCT	7		87	82	N	Y	N	N
05/31/01	151	2	COAL	LOW	3	WCT	11		88	83	N	Y	N	N
06/23/01	174	2	BROWN	LOW	2	WCT	108		74	69	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	102		85	80	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	103		92	86	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	104		94	87	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	106		104	98	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	105		124	117	N	Y	N	N
06/23/01	174	2	BROWN	LOW	1	WCT	101		136	128	N	Y	N	N
06/23/01	174	2	BROWN	LOW	2	WCT	107		139	132	N	Y	N	N
10/13/01	286	2	BROWN	LOW	2	WCT/RBT	844		226	212	N	Y	N	UNK
05/12/01	132	2	BROWN	LOW	2	WCT	4		104	97	N	Y	N	N
05/12/01	132	2	BROWN	LOW	2	WCT	1		111	105	N	Y	N	N
05/12/01	132	2	BROWN	LOW	2	WCT	5		111	105	N	Y	N	Y
05/12/01	132	2	BROWN	LOW	2	WCT	3		114	107	N	Y	N	N
05/12/01	132	2	BROWN	LOW	2	WCT	2		122	112	N	Y	N	N
05/12/01	132	2	BROWN	LOW	3	WCT	8		130	122	N	Y	N	Y
05/13/01	133	2	BROWN	LOW	1	WCT	45		53	50	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	48		54	51	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	43		62	58	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	47		62	58	N	Y	N	N
05/13/01	133	2	BROWN	LOW	9	WCT	35		65	61	N	Y	N	N
05/13/01	133	2	BROWN	LOW	9	WCT	36		65	62	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	46		70	65	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	44		72	68	N	Y	N	N
05/13/01	133	2	BROWN	LOW	8	WCT	32		94	88	N	Y	N	N
05/13/01	133	2	BROWN	LOW	9	WCT	37		102	96	N	Y	N	N
05/13/01	133	2	BROWN	LOW	9	WCT	33		105	99	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	42		111	105	N	Y	N	N
05/13/01	133	2	BROWN	LOW	5	WCT	21		123	116	N	Y	N	N
05/13/01	133	2	BROWN	LOW	1	WCT	49		143	133	N	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	420		25		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	403		27		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	410		27		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	419		27		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	408		28	27	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	433		28		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	436		28		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	437		28		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	440		28		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	401		29		Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	435		29	28	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	405		30	29	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	416		30	29	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	432		30	29	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	441		30	29	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	404		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	407		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	411		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	422		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	428		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	430		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	434		31	30	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	406		32	31	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	409		32	31	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	413		32	31	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	421		32	31	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	431		32	31	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	412		33	32	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	414		33	32	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	423		33	32	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	427		33	32	Y	Y	N	N

DATE	STREAM	SITE	FISH#	NOTES
05/31/01	COAL	LOW	7	ABOVE BARRIER
05/31/01	COAL	LOW	11	ABOVE BARRIER
06/23/01	BROWN	LOW	108	RBT HYBRID?
06/23/01	BROWN	LOW	102	RBT HYBRID?
06/23/01	BROWN	LOW	103	RBT HYBRID?
06/23/01	BROWN	LOW	104	RBT HYBRID?
06/23/01	BROWN	LOW	106	RBT HYBRID?
06/23/01	BROWN	LOW	105	RBT HYBRID?
06/23/01	BROWN	LOW	101	RBT HYBRID?
06/23/01	BROWN	LOW	107	RBT HYBRID?
10/13/01	BROWN	LOW	844	RBT?
05/12/01	BROWN	LOW	4	
05/12/01	BROWN	LOW	1	
05/12/01	BROWN	LOW	5	
05/12/01	BROWN	LOW	3	
05/12/01	BROWN	LOW	2	
05/12/01	BROWN	LOW	8	
05/13/01	BROWN	LOW	45	
05/13/01	BROWN	LOW	48	
05/13/01	BROWN	LOW	43	
05/13/01	BROWN	LOW	47	
05/13/01	BROWN	LOW	35	
05/13/01	BROWN	LOW	36	
05/13/01	BROWN	LOW	46	
05/13/01	BROWN	LOW	44	
05/13/01	BROWN	LOW	32	
05/13/01	BROWN	LOW	37	
05/13/01	BROWN	LOW	33	
05/13/01	BROWN	LOW	42	
05/13/01	BROWN	LOW	21	
05/13/01	BROWN	LOW	49	
07/18/01	BROWN	LOW	420	
07/18/01	BROWN	LOW	403	
07/18/01	BROWN	LOW	410	
07/18/01	BROWN	LOW	419	
07/18/01	BROWN	LOW	408	
07/18/01	BROWN	LOW	433	
07/18/01	BROWN	LOW	436	
07/18/01	BROWN	LOW	437	
07/18/01	BROWN	LOW	440	
07/18/01	BROWN	LOW	401	
07/18/01	BROWN	LOW	435	
07/18/01	BROWN	LOW	405	
07/18/01	BROWN	LOW	416	
07/18/01	BROWN	LOW	432	
07/18/01	BROWN	LOW	441	
07/18/01	BROWN	LOW	404	
07/18/01	BROWN	LOW	407	
07/18/01	BROWN	LOW	411	
07/18/01	BROWN	LOW	422	
07/18/01	BROWN	LOW	428	
07/18/01	BROWN	LOW	430	
07/18/01	BROWN	LOW	434	
07/18/01	BROWN	LOW	406	
07/18/01	BROWN	LOW	409	
07/18/01	BROWN	LOW	413	
07/18/01	BROWN	LOW	421	
07/18/01	BROWN	LOW	431	
07/18/01	BROWN	LOW	412	
07/18/01	BROWN	LOW	414	
07/18/01	BROWN	LOW	423	
07/18/01	BROWN	LOW	427	

07/18/01	199	2	BROWN	LOW	2	WCT	429		35	34	Y	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	415		80	75	N	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	439		86	80	N	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	424		87	81	N	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	418		108	101	N	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	438		111	103	N	Y	N	N
07/18/01	199	2	BROWN	LOW	1	WCT	417		160	150	N	Y	N	N
07/18/01	199	2	BROWN	LOW	2	WCT	442		194	183	N	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	511		32	31	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	540		34	33	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	548		34	33	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	520		35	34	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	524		35	34	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	550		35	34	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	534		36	35	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	539		36	35	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	531		37	36	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	503	503-01	38	37	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	504		39	38	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	536		39	38	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	538		39	38	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	551		39	38	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	529		40	39	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	507		41	40	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	510		41	40	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	513		42	40	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	514		42	40	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	537		43	42	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	528		44	43	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	549		44	43	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	505		45	44	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	532		45	44	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	506		46	44	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	512		46	44	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	517		47	45	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	527		47	45	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	533		47	46	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	541		47	46	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	508		48	47	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	509		48	47	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	516		48	46	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	1	WCT	518		48	46	Y	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	535		50	49	Y	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	525		54	52	N	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	526		54	52	N	Y	N	N
08/14/01	226	2	BROWN	LOW	2	WCT	530		54	52	N	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	519		99	92	N	Y	N	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	547		103	97	N	Y	N	N
08/14/01	226	2	BROWN	LOW	1	WCT	515		105	98	N	Y	N	UNK
09/18/01	261	2	BROWN	LOW	3	WCT	743		39	38	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	717		48	46	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	723		48	46	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	731		51	49	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	736		52	50	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	738		52	50	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	715		53	51	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	705		54	51	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	712		54	51	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	704		55	52	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	706		55	54	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	716		55	54	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	737		55	52	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	726		56	54	Y	Y	N	N

09/18/01	261	2	BROWN	LOW	2	WCT	722		58	55	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	729		58	55	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	739		59	56	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	740		59	56	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	711		60	56	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	724		61	58	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	744		62	58	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	721		63	59	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	730		64	60	Y	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	741		65	62	N	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	742		65	61	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	719		66	63	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	727		66	62	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	728		67	64	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	720		69	64	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	703		92	86	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	710		112	104	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	707		127	118	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	713		127	119	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	725		127	117	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	714		132	124	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	708		145	135	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	709		151	142	N	Y	N	N
09/18/01	261	2	BROWN	LOW	1	WCT	702		153	143	N	Y	N	N
09/18/01	261	2	BROWN	LOW	3	WCT	745		158	147	N	Y	N	N
09/18/01	261	2	BROWN	LOW	2	WCT	718		165	153	N	Y	N	N
10/13/01	286	2	BROWN	LOW	1	WCT	813		63	59	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	816		64	60	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	862		66	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	879		66	63	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	882		66	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	886		66	63	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	808		67	63	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	817		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	820		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	821		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	828		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	856		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	872		67	64	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	814		68	65	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	860		68	65	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	810		69	66	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	864		69	66	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	871		69	66	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	863		70	67	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	829		71	67	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	867		71	68	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	874		71	68	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	826		72	69	Y	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	815		74	70	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	827		77	72	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	852		81	77	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	853		82	78	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	807		86	80	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	857		89	85	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	851		96	91	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	806		97	92	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	848		97	91	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	846		99	93	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	812		106	97	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	809		109	101	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	849		113	105	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	847		117	110	N	Y	N	UNK

10/13/01	286	2	BROWN	LOW	2	WCT	850		130	121	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	805		132	125	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	845		133	128	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	803		145	137	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	804		145	140	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	842		152	144	N	Y	N	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	843		153	146	N	Y	N	UNK
08/14/01	226	2	BROWN	MID	1	WCT	554		27	26	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	559		30	29	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	504		31	30	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	560		32	31	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	507		33	32	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	508		33	32	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	553		35	34	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	514		37	36	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	556		37	36	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	557		37	36	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	506		37	36	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	536		38	37	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	555		38	37	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	524		39	38	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	523		40	39	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	552		40	39	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	501		40	39	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	502		40	39	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	516		41	40	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	521		41	40	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	515		42	41	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	517		42	41	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	522		42	41	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	558		42	41	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	503		43	42	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	505		44	42	Y	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	525		92	86	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	544		99	93	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	533		103	97	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	530		106	100	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	537		115	110	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	542		116	109	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	538		120	114	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	509		131	123	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	535		140	131	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	527		141	133	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	562		142	134	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	532		149	141	N	Y	N	Y
08/14/01	226	2	BROWN	MID	1	WCT	561		149	140	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	534		150	142	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	531		151	143	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	540		156	145	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	545		157	148	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	520		169	159	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	541		172	163	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT/RBT	543		176	165	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	563		198	188	N	Y	N	N
08/14/01	226	2	BROWN	MID	1	WCT	539		201	189	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	546		79	75	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	547		80	75	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	554		89	84	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	553		110	104	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	548		115	109	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	552		128	121	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	549		143	136	N	Y	N	N
08/13/01	225	2	BROWN	UP	4	WCT	550		160	150	N	Y	N	N

08/13/01	225	2	BROWN	UP	4	WCT	551		164	156	N	Y	N	N
08/14/01	226	2	BROWN	UP	2	WCT	520		30	29	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	540		30	29	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	512		31	30	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	515		31	30	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	525		31	30	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	526		31	30	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	517		32	31	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	529		32	31	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	538		32	31	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	535		33	32	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	539		33	32	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	541		33	32	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	524		34	33	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	532		34	33	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	537		34	33	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	542		34	33	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	508		35	34	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	514		35	34	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	531		35	34	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	536		35	34	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	509		36	35	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	527		36	35	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	530		37	36	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	543		37	36	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	510		38	37	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	533		38	37	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	528		39	38	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	507		41	40	Y	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	506		74	70	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	1	WCT	501		78	73	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	3	WCT	534		81	77	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	516		91	86	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	519		103	97	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	1	WCT	505		112	105	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	513		116	110	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	1	WCT	503		120	114	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	1	WCT	502		122	116	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	1	WCT	504		129	121	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	518		129	121	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	521		129	122	N	Y	N	UNK
08/14/01	226	2	BROWN	UP	2	WCT	511		135	129	N	Y	N	UNK
08/02/01	214	4	CABIN	LOW	1	WCT	512		31	30	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	501		35	34	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	506		36	35	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	503		37	36	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	505		40	39	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	504		41	40	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	508		42	41	Y	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	513		88	83	N	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	507		92	88	N	Y	N	N
08/02/01	214	4	CABIN	LOW	1	WCT	509		104	98	N	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	517		25		Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	515		27		Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	522		27		Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	521		28		Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	514		29		Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	524		29	28	Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	519		31	30	Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	520		32	31	Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	516		33	32	Y	Y	N	N
08/03/01	215	4	CABIN	LOW	2	WCT	523		35	34	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	33		29	28	Y	Y	N	N

07/27/01	208	6	CASCADE	LOW	2	WCT	44		29	28	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	46		29	28	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	49		29	28	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	26		30	29	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	34		30	29	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	41		30	29	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	48		30	29	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	35		31	30	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	37		31	30	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	57		31	30	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	11		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	21		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	29		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	30		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	43		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	45		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	47		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	50		32	31	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	22		33	32	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	23		33	32	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	28		33	32	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	42		33	32	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	25		34	33	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	39		34	33	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	40		34	33	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	24		35	34	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	31		35	34	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	38		35	34	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	32		36	35	Y	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	15		84	80	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	14		87	82	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	17		91	86	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	59		95	89	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	13		97	92	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	18		100	95	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	60		118	111	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	10		119	112	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	2	WCT	61		135	127	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	19		137	130	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	12		144	136	N	Y	N	N
07/27/01	208	6	CASCADE	LOW	1	WCT	16		156	149	N	Y	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	8		21		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	15		22		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	18		22		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	31		22		Y	N	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	12		27		Y	N	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	6		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	11		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	13		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	14		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	19		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	21		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	27		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	28		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	30		28		Y	N	N	N
07/27/01	208	6	CASCADE	MID	2	WCT	7		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	16		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	17		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	22		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	23		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	24		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	26		29		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	29		29		Y	N	N	N

07/27/01	208	6	CASCADE	MID	2	WCT	10		30	29	Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	20		30		Y	N	N	N
07/27/01	208	6	CASCADE	MID	3	WCT	25		30		Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	35		28		Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	37		28		Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	38		28		Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	39		28		Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	36		29	28	Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	32		30	29	Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	33		30	29	Y	N	N	N
07/30/01	211	6	CASCADE	MID	4	WCT	34		32	31	Y	N	N	N
07/30/01	211	6	CASCADE	UP	2	WCT	9		21		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	3	WCT	13		22		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	3	WCT	14		23		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	3	WCT	15		23		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	3	WCT	16		23		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	2	WCT	10		25		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	2	WCT	7		26		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	2	WCT	8		26		Y	Y	N	N
07/30/01	211	6	CASCADE	UP	1	WCT	3		82	78	N	Y	N	N
07/30/01	211	6	CASCADE	UP	1	WCT	2		156	148	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	53		52	49	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	48		56	54	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	52		58	55	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	51		61	58	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	47		62	58	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	55		66	62	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	46		68	65	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	49		70	66	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	45		76	72	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	54		76	72	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	41		79	75	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	50		82	78	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	43		113	107	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	42		119	117	N	Y	N	N
04/16/01	106	1	CEDAR	LOW	1	WCT	44		126	118	N	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	145		24		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	150		24		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	149		25		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	104		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	108		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	116		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	120		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	122		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	146		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	147		26		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	105		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	106		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	111		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	112		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	113		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	114		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	115		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	117		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	119		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	137		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	143		27		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	118		28		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	121		28		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	135		28		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	138		28		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	140		29		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	142		29		Y	Y	N	N

06/19/01	170	1	CEDAR	LOW	2	WCT	141		30		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	144		30		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	136		31		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	148		31		Y	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	BRT	154		49	47	N	N	N	N
06/19/01	170	1	CEDAR	LOW	2	BRT	153		54	52	N	N	N	N
06/19/01	170	1	CEDAR	LOW	2	BRT	152		64	61	N	N	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	139		100	94	N	Y	N	N
06/19/01	170	1	CEDAR	LOW	2	WCT	151		102	97	N	Y	N	N
06/19/01	170	1	CEDAR	LOW	1	WCT	107		111	105	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	423		33	32	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	412		35	34	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	416		35	34	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	405		36	35	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	427		36	35	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	440		36	35	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	406		37	36	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	408		37	36	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	422		37	36	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	418		38	37	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	425		38	37	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	426		38	37	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	437		38	37	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	436		39	38	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	442		39	38	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	409		40	39	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	411		40	39	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	431		40	39	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	438		40	39	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	407		41	40	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	417		41	40	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	430		41	39	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	439		42	40	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	429		43	42	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	421		46	45	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	428		48	46	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	419		49	47	Y	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	433		95	89	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	434		107	100	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	441		109	101	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	443		110	104	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	444		110	103	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	445		114	108	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	420		128	120	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	424		128	120	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	413		136	129	N	Y	N	N
07/17/01	198	1	CEDAR	LOW	1	WCT	432		149	141	N	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	536		36	35	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	516		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	518		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	535		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	511		40	39	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	515		41	40	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	519		41	40	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	526		41	40	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	537		41	40	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	514		42	41	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	512		44	43	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	534		44	43	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	543		45	44	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	509		46	45	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	517		46	45	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	530		46	45	Y	Y	N	N

(1992) and Kinnison et al. (1998) and size divergence by Smoker et al. (1994) and Nicieza et al. (1994). Environmental variation represents the range of non-genetically based phenotypes displayed among individuals across environmental gradients and phenotypic plasticity represents an individual's range of phenotypes potentially expressed in response to environmental gradients experienced by that individual (Schlichting 1989; West-Eberhard 1989; Adkison 1995). Environmental factors most important in triggering phenotypic variation in fishes have not been thoroughly examined (van Noordwijk 1989); however, all aquatic organisms are sensitive to temperature, pH, ion concentration, and pressure since they affect physiological processes (Stearns 1989). A wider range of conditions per environmental variable tends to produce a wider range in character traits (Endler 1973). Because fish including salmonids have average genetic diversity but exhibit higher intraspecific phenotypic diversity than most taxa (Healey 1986; Allendorf et al. 1997), they must therefore be more susceptible to environmental factors than are other aquatic taxa (Allendorf and Leary 1988). Allendorf and Leary (1988) therefore suggest that focus only on molecular genetic diversity may fail to conserve a significant component of intraspecific fish diversity. Environmental influences on salmonid phenotypic variation are reviewed by Thorpe (1994).

Although processes generating variation in mean fish size and size diversity are incompletely understood, important instream characteristics include temperature, food availability (Claytor et al. 1991; McDowall 1994), and habitat characteristics affecting predation, competition, and shelter from high flows. Habitat complexity (Baltz et al. 1991) and intra- and interspecific competitor density (Dong and DeAngelis 1998) may

be particularly important in controlling size variation. Growth rates of fish in particular are highly sensitive to changes in physical factors such as water temperature and food availability (Nicieza et al.1994). Because growth rates and organism size drive many life history characteristics, e.g. mortality schedules, age at maturity, competition and predation and therefore community structure, stream productivity can also influence species and community structure and therefore biodiversity (Werner and Gilliam 1984). Fish growth, age and size at maturation, and migratory life history type have been linked to aquatic productivity (Policansky 1983; Gross et al. 1988; Rieman and Myers 1992).

Conductivity, generally an effective surrogate for nutrient availability for streams within a basin, has been positively correlated with primary production (e.g. Chetelat et al. 1999) as well as fish growth, mean size, fecundity, and size at maturity (McFadden and Cooper 1962; Trippel and Beamish 1989; Holmes 1990; Trippel 1993; Trippel and Beamish 1993), standing crop, weight (Donald et al. 1980), and fish production and biomass (Scarnecchia and Bergerson 1987).

Growth has also been shown to be directly correlated with temperature (Donald et al. 1980; Elliott 1984; Holtby 1988; Mills 1988; Vondracek et al. 1988; Copp 1990; Elliott 1990; Holmes 1990; Johnson et al. 1992) but inversely correlated with temperature above optimum thermal tolerances (Myrick and Cech 1996). Temperature modulation of development producing significant phenotypic variation is probably a universal example among ectotherms (Smith-Gill 1983).

Habitat complexity may be correlated with size variation since a more complex environment may accommodate size-based ontogenetic habitat shifts (Baltz et al.

1991). Harvey and Nakamoto (1997) found habitat complexity to mediate competition between size classes of juvenile rainbow trout. Habitat complexity has been shown to influence size, structure, distribution, and stability of a population (Pearsons et al. 1992; Sedell et al. 1990) and may also increase a population's resistance to (Poff and Ward 1990; Pearsons et al. 1992) and recovery from disturbance (Connell and Sousa 1983). We explore relationships between habitat complexity, including the effects of valley width on available age 0 habitat, and size diversity elsewhere (McGrath et al. *in prep*).

The role of density in controlling growth is unclear. Increased competition as a result of high density may limit individual growth and therefore fish size and size variation in a population or cohort size. For example, Johnson et al. (1992) found high brook trout density in a confined pool produced a homogeneous population of stunted fish. Effects of fish density on growth and size structure have been documented (e.g. Jobling and Reinsnes 1986; Grant 1993; Knight et al. 1999; Railsbeck and Rose 1999; Roni and Quinn 2001). However, several authors found that density did not limit juvenile salmonid growth (Moore and Gregory 1988; Rieman and Myers 1992; Hayes 1995) particularly if individuals were free to emigrate from high-density or food-limiting situations (Keeley 2001). Dong and DeAngelis (1998) found size variation to increase with density whereas Elliott (1984, 1990) found size variation to decrease with egg density (and therefore potentially with fry density).

Examination of spatial pattern can provide inferences about causal processes. Linkages between watershed and instream biotic and habitat characteristics are well demonstrated. Instream water temperature is driven by landscape features such as

elevation, solar aspect, and valley width, and may also be correlated with stream size. For example, Larscheid and Hubert (1992) linked water temperature and fish size to elevation and Bozek and Hubert (1992) linked trout species distribution with stream size and water temperature. Lotic productivity reflects watershed conditions including geology, rainfall, aspect, vegetation, as well as stream size and valley width. Vannote et al. (1980) identified predictable changes in lotic systems with size as formulated in the river continuum theory. Valley constraint can influence off-channel habitat and large woody debris availability and channel (Rot et al. 2000). Watershed variables including elevation and stream size have been linked to instream habitat measures including reach width, velocity, substrate composition, and gradient (Lanka et al. 1987), and water quality characteristics including temperature and nutrient concentration have been correlated with distance downstream (Hughes and Gammon 1987). Distance downstream was also linked to fish size of juvenile brown trout by Hayes (1995) and sockeye salmon (*Oncorhynchus nerka*) by Woody et al. (2000). Mean aspect and basin area explained two-thirds of the variation in spawning timing and length of spawners of Yellowstone cutthroat trout (Gresswell et al. 1997) and rainbow trout standing crop has been correlated with watershed aspect (Li et al. 1994).

Instream habitat and water quality conditions reflect landscape characteristics at multiple scales within a drainage. Frissell et al. (1986) proposed a hierarchical structure for classifying stream habitats, including five scales from the watershed level to the microhabitat level. Watershed characteristics including climate, soils, and geology, and segment-level characteristics including position in the drainage network

and valley width (confinement) influence instream productivity through direct and indirect effects on temperature and nutrient availability.

Scale relationships between patterns and causal mechanisms are not well understood. Horne and Schneider (1995) suggested that biological variation and physical processes responsible for generating that variation occur at the same scales; identification of causal processes may be inferred by matching scales of variation and dominant processes. Conversely, Levin (1992) suggests that ecological patterns may be confined by causal mechanisms occurring at larger scales, or they may be the net response to multiple cumulative processes occurring at smaller spatial scales. Understanding of scale effects requires that phenomena be studied at the appropriate scale (s; May 1994); inferences are therefore limited to the scales studied (Cullinan and Thomas 1992).

Aquatic processes and biotic diversity may therefore occur across multiple spatial scales in response to environmental gradients at different scales (Morris 1987; O'Neill et al. 1988; Carlile et al. 1989; Taylor 1991; Healey and Prince 1995; Lewis et al. 1996; Rabeni and Sowa 1996; Cooper et al. 1998). Fisheries examples of scale dependency include Young's (1999) finding that proportion of jack spawners in coho salmon (*Oncorhynchus tshawtscha*) differed in relation to local stream habitat variables including gradient, distance from the ocean, and elevation, but not in relation to the larger scale variable of basin identity. Age 0 and age 1 Atlantic salmon varied in feeding and growth at a relatively small spatial scale (20m reach length) in response to flood events (Arndt et al. 2002). Different factors regulated an Arkansas darter (*Etheostoma cragini*) population at each of four scales, pool, reach, segment, and

watershed (Labbe and Fausch 2000). Consideration of physical and biotic processes at all four scales was necessary to understand this species' population dynamics in this study. Relative importance of environmental and genetic factors controlling phenotypic response may vary with temporal and spatial scale of variability in the environment, and the interactions between them (Riddell and Leggett 1981), and individual species operate at multiple scales for different processes (Addicott et al. 1987; Menge and Olson 1990). The relative importance of competition, predation, and abiotic factors may therefore change with scale and species identity (Menge and Olson 1990).

Conservation of fishes depends on consideration of the multiple scales at which they operate (Fausch et al. 2002 and e.g. Labbe and Fausch 2000); conservation of intraspecific stream fish diversity requires maintenance of habitat diversity at the multiple scales responsible for generating the diversity in a given taxon (Healey and Prince 1995). Because of the strong linkages between watershed and aquatic characteristics, land management must include aquatic goals in order to maintain a diversity of natural habitats (Likens and Bormann 1974; Platts 1979; Maret et al. 1997).

In this study, we sought to identify the spatial scales and productivity gradients associated with size and size variation of age 0 westslope cutthroat trout. Although westslope cutthroat trout (*Oncorhynchus clarki lewisi*) historically were and currently are one of the most widespread of the inland trout, the subspecies is in decline through much of its range (Lee et al. 1997) and in 2000 was proposed for listing under the U.S. Endangered Species Act. We chose to study age 0 fish because early life history stages play a disproportionately large role in determining population recruitment (Werner and Gilliam 1984; Van Winkle et al. 1993). Natural selection operates most

intensively on the most vulnerable life stages, the reproductive and early life history stages, and competition, predation and survival through the critical first year are size-mediated processes directed at age 0 fish (Stein et al. 1987). To better understand watershed linkages with instream productivity and temperature gradients, landscape variables associated with these instream characteristics were also selected for inclusion. Understanding relationships between fish diversity and landscape characteristics rather than instream characteristics may also be more useful to land managers charged with conserving aquatic resources. We chose the Coeur d' Alene (CDA) basin of northern Idaho as our study area since it offered relatively diverse geology, topography, and other landscape characteristics affecting instream gradients of growth and therefore fish size. Our specific hypotheses were: 1) age 0 size and size diversity and growth potential variables would occur at similar spatial scales, and 2) age 0 size and size diversity would correlate with instream and watershed productivity gradients.

STUDY AREA

The study was conducted in the Coeur d' Alene (CDA) basin of northern Idaho, U.S.A. (Figure 1), a region of low mountains vegetated by coniferous forest dominated primarily by Douglas fir, cedar, and hemlock tree species (Bailey 1995). Elevation ranges from 600 to 1850m. Climate includes severe winters of heavy snowfall, rain-on-snow, and rainfall of 0.5-1.0m (20-40inches)/year. Geology is dominated by PreCambrian Belt sedimentary rock likely containing basalt sills and granite sheets (Alt and Hyndman 1989). The majority of the basin is within the Panhandle National Forest,

managed by the U.S. Department of Agriculture Forest Service. Logging and mining in the basin began in the mid-1800s (Maclay 1940) and have influenced much of the basin; logging is the predominant land use today. Many drainages have been moderately to heavily impacted by road construction and timber harvest during the past 50 years, particularly at lower elevations within the basin.

Twelve of 19 study streams drain to the North Fork of the CDA River, 4 streams drain to the Little North Fork of the CDA River, and 3 streams drain to Wolf Lodge Creek; all ultimately draining to Lake Coeur d' Alene. Study streams are second- or third-order, moderate-gradient (2-6%), with gravel or cobble substrate and high water quality.

Fish fauna of study streams is limited to native westslope cutthroat trout, torrent sculpin (*Cottus rhotheus*), and shorthead sculpin (*Cottus confusus*) and non-native brook trout (*Salvelinus fontinalis*) and rainbow trout (*Oncorhynchus mykiss*). Bull trout are native to the system but are believed to be extirpated. Anadromous species do not have access to this system due to natural migration barriers below Lake Coeur d' Alene. Westslope cutthroat trout abundance has been depressed in some streams in the study area due to historic overharvest and habitat degradation (Dunnigan 1997; Abbott 2000; N. Horner, ID Department of Fish and Game, personal communication).

METHODS

Field Collections

Because westslope cutthroat trout abundance was known to be depressed in some streams in the basin, streams were selected for study that contained higher than

average westslope cutthroat trout abundances based on data from 1994-1996 for 84 streams (B. Rieman, unpublished data). Streams were also selected that had relatively easy road or trail access. In order to address the spatial scale objectives of our study, multiple sites per stream (site scale) were selected in 2 to 4 adjacent streams (stream scale) distributed throughout the study area (area scale; Figure 2); streams were also selected that represented desired environmental gradients. Within each stream, an upper site was located as high in the drainage as possible while still being large enough to contain sufficient numbers of age 0 fish. Lower sites were generally selected immediately above the confluence with a receiving stream; however, in a few cases where study streams were larger than average, the lower site was placed higher in the drainage to maintain similar stream sizes across all study streams. Middle sites were located roughly halfway between the lower and upper site per stream. In a few cases, only one or two sites were sampled per stream. Three scales were investigated, site (10^0km), stream (10^1 km), and area (10^2km).

Because age 0 fish varied in size among sites and across the sampling period, fish were collected using hand netting to visually locate smaller individuals and a Smith-Root Type VII backpack electrofisher (Smith-Root, Inc., Vancouver, Washington) for visually located larger individuals and all individuals not located visually. Voltage was varied by stream to compensate for water conductivity differences and insensitivity of the smallest individuals to electric current. Because electrofishing collection methods can be size-selective, collection of all age 0 fish seen was attempted as well as systematic sampling of all potential habitats with characteristics identified by Lentz (1998) as suitable for age 0 westslope cutthroat trout. At each collection site, all

westslope cutthroat trout were collected; collection continued until a minimum of 34 age 0 individuals had been obtained. Collections for spatial analysis were made during July and August of 2000 and 2001. Sampling was repeated on some streams to assist in correcting lengths (see below); these collections were made between July and October. All westslope cutthroat trout collected were anesthetized, measured (total body length), and released. Fish older than age 0 were measured to assist in characterizing the length range of age 0 fish. A small number of age 0 and age 1 individuals were also collected for age confirmation from otolith analyses.

Temperature was recorded using calibrated instream HOBO TEMP thermographs (HOBOs). Due to equipment limitations, only 40 of 71 sites received HOBOs during the two years. HOBOs were placed at each site as soon as possible after snowmelt and were generally retrieved in late September or October of each year. At each site, a HOBO was anchored to the bottom of the stream and shaded with cobbles in a slow or still water pocket or eddy characteristic of age 0 habitat. Due to differences in date of HOBO placement and HOBO malfunction, temperature data were available for somewhat different time periods between years and between sites. Daily average temperatures for the time period in which data were available for all sites during both years were averaged within year, so that valid between year and between site comparisons could be made. In order to evaluate temperature variation among potential HOBO placement locations within a site, 7 HOBOs were placed at the lower site on Lonesome Creek (a lower elevation stream) and the upper site on Tom Lavin Creek (a higher elevation stream). Within each site, three HOBOs were placed in shady habitat units, three in sunny units, and one in flowing water. Age 0 trout habitat

units typically consist of isolated or partially isolated stream margin areas characterized by low water velocity, often separated from main channel flow by a sharp change in water velocity and in some cases physical obstructions as well (Lentz, 1998 #1378)(Moore, 1988 #626).

Conductivity was measured one or more times during each year at each site; two-year averages were used in all analyses. Elevation at each site was estimated to the nearest 3.1 m (10 feet) from 1:24,000 topographic maps. Headwater distance was measured from the upstream source as indicated on 1:24,000 maps downstream to each site. Average aspect of the stream channel through each site was estimated from topographic maps and was then converted to a reversed Day scale (Day and Monk 1974), from 1(northeast) to 18 (southwest). Valley width was paced at each site.

Analyses

Length frequencies were first plotted for each site; plots were used to identify the maximum length of age 0 fish at each site. In general, a 5 to 10 mm gap existed between age 0 and age 1 fish and differentiation of the two age classes was clear. Aging based on length groups was confirmed by otolith analysis. Collections were made during a ten week period in 2000 (with 37 sites in a 7 week period), and a five week period (with 29 sites in a 3 week period) in 2001. In order to compensate for growth between sites due to date of sampling, available age 0 length time series data (K. McGrath, unpublished data) for each year were used to characterize growth rates during the collection periods. A subsample of sites representing the full range of environmental gradients found in our stream sample was sampled more than once

during each collection period. Thirteen sites during 2000 and 11 sites during 2001 were sampled more than once. Total body length was regressed on collection date, and date slopes from each regression were averaged within year. Data from all collections were corrected within year to the 221st day of the year (August 8, 2000, August 9, 2001), the midpoint of all sampling efforts in 2000 and 2001, by the average date slope. Because correction of total length assumes constant growth of all individuals and therefore does not allow for size diversification (or homogenization) during the sampling period, total length and interquartile range were corrected separately. Raw total length data were used to calculate interquartile range of total length for each time series site. Interquartile range was then regressed on day of the year, date regression slopes were averaged within year, and interquartile range data for all sites were corrected by the date slope to the 221st day of the year in a treatment similar to that for total length. Corrected total length (CLen) and corrected interquartile range (CIQR) were used in all analyses.

Normality of the data was confirmed through examination of box and whisker plots and normal probability plots and calculation of skewness and kurtosis coefficients using Systat (Systat Version 8.0, SPSS, Inc. 1998, Standard Version). Effect of year of sampling on size variables was assessed through a paired t-test on sites sampled during both years.

The distribution of size variation among scales was analyzed in nested analyses of variance (ANOVA) with CLen and CIQR as dependent variables and area, stream(area), site(area*stream), and year (not nested) as independent variables. Percentage of the total mean square error due to scale attributable to each scale

variable was calculated. To explore relationships between scale and pattern ANOVA analyses were conducted on each productivity gradient, percentage of total mean square error was calculated for each scale, and these results were compared to similar analyses for CLen and CIQR.

Correlations among landscape variables were examined to identify redundancies. Relationships of instream temperature and landscape variables were examined through regression analyses. Finally, relationships of size variables with productivity gradients were examined through stepwise regression; regressions were conducted separately with instream productivity gradients (temperature, conductivity) and landscape variables (aspect, elevation, headwater distance, valley width). Regression analyses were conducted at the site, stream, and area scales by averaging over the next smaller scale. Significance level used to enter and stay in regression models was $p < 0.10$. ANOVA and regression analyses were conducted in SAS (SAS Institute, Inc., Release 6.12 TS060, Copyright 1989-96).

In many of our study streams, age 0 density was low; achieving collection goals was challenging and in some cases required collection through a longer than desired section of stream. Although we did not measure density directly, we scored streams based on difficulty of collecting requisite subsamples (based on collection reach length and time required), from 1 = low density to 3 = high density and regressed CLen and CIQR on density separately and with instream and landscape variables. We also regressed length correction slopes (growth rates per stream) on density.

RESULTS

Mean, maximum, and minimum temperatures did not vary greatly between flowing water, shaded habitat units, and sunny habitat units within stream (Table 1). Sunny units were not warmer. Variation between units was generally low. Habitat units tended to have more stable daily temperatures than the flowing water sites. Sunny units varied more than did shaded units, particularly for average maximum temperature, and average maximum temperature tended to vary more than did mean or minimum average temperatures. Temperatures in Tom Lavin Creek were lower and more stable than in Lonesome Creek.

Average stream temperature was significantly higher in 2000 than in 2001 ($t=8.76$, $p<0.0001$, $N=13$). Therefore, temperature within year was used in all regression analyses that included temperature as a variable. During 2000 and 2001, elevation was the only landscape variable explaining significant variation in temperature ($R^2=0.321$, $p<0.008$, $N=21$; $R^2=0.476$, $p<0.002$, $N=19$, respectively). However, when stream was included as a covariate with elevation, elevation was highly significant in 2000 and 2001 ($p<0.0001$, $p<0.002$, respectively) and the model explained most of the variation in temperature (Model: $p<0.0001$ during both years, $R^2=0.987$, $N=21$; $R^2=0.896$, $N=19$, respectively).

Forty-one sites were sampled in 2000 and 30 sites were sampled in 2001, of which 23 had been sampled in 2000. Site averages of total fish length and site interquartile range were corrected within year for date of sampling. For CLen, length was regressed on day of the year of sampling for 13 sites in 2000 and 11 sites in 2001

(Table 2). In 2000, slopes ranged from 0.084 to 0.497 (mean = 0.258), and in 2001, slopes ranged from 0.144 to 0.391 (mean = 0.290. CLen was calculated as follows:

$$2000\text{: CLen} = \text{Total length} + 0.258\ (221 - \text{Sample Date})$$

$$2001\text{: CLen} = \text{Total length} + 0.290\ (221 - \text{Sample Date})$$

CIQR was corrected similarly. Regression slopes from time-series data available for the 10 sites each in 2000 and 2001 were averaged within year (Table 3). Slopes for 2000 ranged from 0.024 to 0.114 with the exception of three anomalous sites: Lonesome Creek Low (low site) had a slope of 0.006 and Cedar Creek Low and Cedar Creek Up had slopes of –0.087 and –0.004, respectively. The mean regression slope was 0.073 excluding these sites, and was used in correcting CIQR in 2000. Slopes for 2001 ranged from 0.048 to 0.111, with the exception of one site, Yellowdog Creek Low (low site), which had a regression slope of 0.259. Mean regression slope was 0.085 with the exclusion of this site and was used in correcting CIQR in 2001.

In paired t-tests with each length variable, neither CLen nor CIQR differed significantly between 2000 and 2001 (CLen: $t=0.61$, $p<0.56$, N=23; CIQR: $t=1.26$, $p<0.22$, N=23). In analyses of variation among spatial scales, year accounted for 17.3% and 17.8% of variation in CLen (Figure 3a) and CIQR (Figure 3b), respectively.

We found no relationship between density and CLen ($p<0.17$, $R^2=0.041$, slope = 1.49, N=48) or CIQR ($p<0.85$, $R^2=0.000$, slope = -0.123, N=48). In stepwise regressions with instream and landscape variables, density was not a significant variable in to CLen or CIQR with either set of productivity gradients at any scale.

However, regression of stream growth rates used in correcting length data on density produced a significant negative relationship ($p<0.004$, $R^2=0.464$, slope=-0.076, N=16).

Meaningful variation in CLen and CIQR was seen at area, stream, and site scales. The majority of variation in CLen and CIQR, 46.9 and 52.3%, respectively, occurred at the area scale (Figures 3a ,3b). CLen scale analyses included a within site scale that interquartile range did not; however, only 0.5% of total variation was attributable to that scale. Average fish size ranged from 31.6 to 40.0mm at the area scale (Figure 4a), 26.8 to 44.1mm at the stream scale (Figure 4b) and 26.3 to 49.1mm at the site scale (Figure 4c). CIQR ranged from 2.3 to 7.6mm at the area scale (Figure 5a), 1.2 to 10.1mm at the stream scale (Figure 5b), and –0.2 to 15.1mm at the site scale (Figure 5c). The negative interquartile range value is an artifact of our length correction process. Although elevation effects are discussed in more detail below, fish tended to be larger and more variable in size at lower elevations and at most scales, as can be seen from figures 4 and 5.

Fish length, instream productivity gradients, and landscape variables differed in the distribution of variation among spatial scales (Figure 6). All variables except the landscape variables headwater distance and valley width had most variation at the area scale, with variation in elevation almost entirely at the area scale. Headwater distance and valley width had most variation at the stream scale with the remainder relatively evenly divided between the site and area scales. Therefore, distribution of variation in length variables among spatial scales most closely corresponded to aspect and conductivity but also temperature and elevation, and clearly corresponded least to headwater distance and valley width.

Landscape variables were not significantly correlated with each other, with the exception of headwater distance with elevation and valley width (Table 4). All four variables were included in analyses since intervariable correlation explained less than half of the variation in each variable.

In analyses with the instream variables, both variables appeared significant to CLen at the site and stream scales but only temperature was significant at the area scale (Table 5). Temperature and conductivity together explained 58.1 and 29.6% of the variation in CLen at the site and stream scales, respectively; temperature explained 68.7% of the variation in CLen at the area scale. Neither variable was able to enter the model at the site or area scales for CIQR, and only temperature was significant to CIQR at the stream scale, explaining 33.5% of the variation in CIQR (Table 6). Because of the limited number of thermographs, only 40 of 71 samples included the variable temperature. Our instream analyses may therefore have had limited power to explain variation in size variables.

Landscape variables were less effective at explaining variation in CLen than were instream variables. Elevation and aspect appeared in models at the site and stream scales, together explaining 29.6 and 31.7% of the variation in CLen, respectively. No variables entered the model at the area scale (Table 5). Elevation was the only significant variable to CIQR, and was so at all three scales, explaining 25.4, 35.2, and 76.8% of the variation in CIQR at site, stream, and area scales, respectively (Table 6). The site scale differs from the stream and area scales in that it represents a longitudinal gradient within a stream. Fish size was larger and more variable at lower sites within a stream (Table 7).

DISCUSSION

Our length correction method corrects for date of sampling but incorporates some error as well. The methods we used assume constant growth rate across the sample period and that our stream subsample was representative. In calculating the correction coefficient for CIQR, we excluded several streams because their slopes appeared anomalous relative to the others and because during field collections we observed several of them to have unusual characteristics. For example, Lonesome Low below our collection site went dry during 2000 and both Lonesome Low and Cedar Low went dry during 2001. Cedar Mid is immediately adjacent to and confined by an interstate highway and was observed to have a considerable quantity (several cm) of highway grit deposited on the substrate. This material may have altered stream chemistry by adding salts or nutrients. This section was also confined downstream by a dry stream section and upstream by a beaver pond complex which age 0 fish appeared not to penetrate. We believe that error incorporated into the data through the temporal correction process was random, introducing noise but without artificially generating patterns we have credited to productivity gradients.

Introgression with rainbow trout could influence growth and therefore the length pattern we saw in larger fish at lower elevations within and between streams, since rainbow trout may spawn and therefore emerge earlier than cutthroat trout under some circumstances. Rainbow trout introgression is thought to occur primarily from downstream (Hitt 2002), and occurs primarily in downstream tributaries in the Coeur d' Alene (B. Rieman, unpublished data; P. Spruell, University of Montana, unpublished

08/10/01	222	1	CEDAR	LOW	1	WCT	539		46	45	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	524		47	46	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	538		47	46	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	541		47	45	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	520		48	47	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	527		48	47	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	542		48	46	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	523		49	48	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	510		50	49	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	531		50	49	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	513		51	50	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	533		51	50	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	525		52	51	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	508		54	53	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	529		54	52	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	532		54	52	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	540		58	56	Y	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	522		114	107	N	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	507		115	106	N	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	521		135	127	N	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	528		135	127	N	Y	N	N
08/10/01	222	1	CEDAR	LOW	1	WCT	506		142	134	N	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	751		39	38	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	710		42	41	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	728		43	41	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	713		45	44	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	722		45	44	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	731		45	43	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	714		46	45	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	716		46	45	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	750		46	44	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	715		47	46	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	708		50	48	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	717		50	48	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	723		50	48	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	746		50	49	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	709		51	49	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	736		52	50	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	737		52	50	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	739		52	50	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	749		52	50	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	701		53	51	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	725		54	51	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	742		54	52	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	718		55	53	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	719		55	53	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	727		55	52	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	735		55	53	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	747		56	53	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	705		58	55	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	707		60	57	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	721		60	58	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	740		60	57	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	744		60	57	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	745		60	58	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	706		61	59	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	720		61	58	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	743		61	58	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	704		62	59	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	726		62	58	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	734		62	59	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	741		62	59	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	724		63	60	Y	Y	N	N

09/17/01	260	1	CEDAR	LOW	2	WCT	738		63	60	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	748		63	60	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	711		65	62	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	712		65	62	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	730		65	62	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	732		66	62	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	2	WCT	733		66	63	Y	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	703		71	67	N	Y	N	N
09/17/01	260	1	CEDAR	LOW	1	WCT	702		75	71	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	559		29	28	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	562		32	31	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	538		34	33	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	573		34	33	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	537		36	35	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	541		36	35	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	542		36	35	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	578		36	35	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	571		38	37	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	572		38	37	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	534		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	544		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	557		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	558		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	564		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	568		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	569		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	579		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	580		39	38	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	536		40	39	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	543		40	39	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	577		42	41	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	532		43	42	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	539		43	42	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	535		44	43	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	570		44	43	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	540		45	44	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	575		46	44	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	563		48	47	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	560		50	48	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	576		50	49	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	561		52	50	Y	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	528		62	59	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	566		73	69	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	567		74	70	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	565		80	76	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	525		83	77	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	531		84	80	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	527		85	80	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	533		86	81	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	522		92	86	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	523		92	87	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	529		95	90	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	520		98	93	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	526		99	94	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	521		102	97	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	524		105	98	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	519		106	101	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	518		130	124	N	Y	N	N
08/10/01	222	1	CEDAR	MID	1	WCT	530		186	177	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	45		43	42	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	47		43	42	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	58		44	43	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	48		46	45	N	Y	N	N

05/11/01	131	1	CEDAR	UP	2	WCT	46		48	46	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	57		49	47	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	61		49	47	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	54		50	48	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	63		51	50	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	56		52	50	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	55		54	52	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	62		54	52	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	60		57	55	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	39		58	55	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	50		58	55	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	59		59	56	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	52		66	63	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	40		67	64	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	53		68	65	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	19		87	83	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	42		87	76	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	17		88	83	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	44		88	84	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	49		89	84	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	18		93	87	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	43		95	90	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	38		100	94	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	16		103	97	N	Y	N	Y
05/11/01	131	1	CEDAR	UP	1	WCT	20		103	97	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	11		104	97	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	12		105	98	N	Y	N	Y
05/11/01	131	1	CEDAR	UP	1	WCT	15		106	100	N	Y	N	Y
05/11/01	131	1	CEDAR	UP	2	WCT	41		106	100	N	Y	N	N
05/11/01	131	1	CEDAR	UP	2	WCT	51		110	104	N	Y	N	N
05/11/01	131	1	CEDAR	UP	1	WCT	14		122	116	N	Y	N	Y
05/11/01	131	1	CEDAR	UP	1	WCT	13		124	117	N	Y	N	Y
05/11/01	131	1	CEDAR	UP	1	WCT	10		155	147	N	Y	N	Y
06/21/01	172	1	CEDAR	UP	1	WCT	114		56	53	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	120		61	58	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	110		67	64	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	116		72	69	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	124		72	68	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	104		74	70	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	111		75	72	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	119		75	71	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	109		76	72	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	123		76	72	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	105		84	80	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	117		85	81	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	115		87	83	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	103		88	84	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	113		89	85	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	122		97	92	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	112		98	93	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	102		102	96	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	121		102	96	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	118		103	97	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	107		106	100	N	Y	N	Y
06/21/01	172	1	CEDAR	UP	1	WCT	101		110	104	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	106		112	106	N	Y	N	N
06/21/01	172	1	CEDAR	UP	1	WCT	108		117	110	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	404		21		Y	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	407		21		Y	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	403		22		Y	Y	N	N
07/16/01	197	1	CEDAR	UP	4	WCT	433		23		Y	N	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	416		25		Y	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	402		26		Y	Y	N	N

07/16/01	197	1	CEDAR	UP	4	WCT	434		26		Y	N	N	N
07/16/01	197	1	CEDAR	UP	4	WCT	435		27		Y	N	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	423		64	61	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	401		71	68	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	429		73	69	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	414		74	70	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	422		74	71	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	424		75	71	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	412		76	72	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	427		76	73	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	418		78	75	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	411		80	75	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	410		81	77	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	417		82	78	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	425		83	79	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	420		85	81	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	421		86	82	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	415		87	83	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	409		92	86	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	419		101	95	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	408		107	100	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	426		108	101	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	405		113	107	N	Y	N	N
07/16/01	197	1	CEDAR	UP	2	WCT	406		117	111	N	Y	N	N
07/16/01	197	1	CEDAR	UP	3	WCT	428		117	111	N	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	441		25		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	455		25		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	462		25		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	443		26	25	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	445		26	25	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	448		27	26	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	459		27		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	449		28	27	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	460		28		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	461		28		Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	451		29	28	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	453		29	28	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	454		29	28	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	452		30	29	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	442		35	34	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	450		36	35	Y	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	457		76	72	N	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	456		79	74	N	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	446		80	75	N	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	444		82	77	N	Y	N	N
07/17/01	198	1	CEDAR	UP	1	WCT	458		82	78	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	540		30	29	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	538		31	30	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	537		32	31	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	539		32	31	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	524		33	32	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	521		36	35	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	535		36	35	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	536		38	37	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	541		38	37	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	519		40	39	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	525		41	40	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	529		42	41	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	518		43	42	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	522		43	42	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	530		43	42	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	542		43	42	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	515		44	43	Y	Y	N	N

08/13/01	225	1	CEDAR	UP	1	WCT	523		44	43	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	533		44	43	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	516		48	47	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	534		49	47	Y	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	514		79	75	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	532		81	76	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	520		82	77	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	544		84	79	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	546		84	79	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	517		91	86	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	527		95	89	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	526		97	90	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	528		97	91	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	543		98	87	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	545		101	95	N	Y	N	N
08/13/01	225	1	CEDAR	UP	1	WCT	531		123	115	N	Y	N	Y
09/18/01	261	1	CEDAR	UP	3	WCT	717		35	34	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	706		36	35	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	750		36	35	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	751		37	36	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	752		37	36	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	701		38	37	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	742		38	37	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	763		39	38	Y	N	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	707		40	39	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	759		40	39	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	753		41	40	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	722		42	41	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	754		42	41	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	762		42	41	Y	N	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	765		42	40	Y	N	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	767		42	40	Y	N	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	749		43	42	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	755		45	43	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	743		47	46	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	730		48	46	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	766		48	46	Y	N	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	728		50	48	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	764		50	48	Y	N	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	756		53	50	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	711		55	53	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	740		56	54	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	741		56	54	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	2	WCT	768		56	50	Y	N	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	760		57	54	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	758		58	55	Y	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	709		68	64	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	702		70	66	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	714		70	67	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	703		75	71	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	708		75	71	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	712		75	70	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	727		78	74	N	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	757		79	74	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	705		80	75	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	713		80	76	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	720		81	77	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	723		83	79	N	Y	N	Y
09/18/01	261	1	CEDAR	UP	3	WCT	725		83	78	N	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	761		84	79	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	704		86	81	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	726		86	81	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	721		88	82	N	Y	N	N

09/18/01	261	1	CEDAR	UP	3	WCT	724		88	83	N	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	735		92	85	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	716		93	88	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	718		93	88	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	719		96	91	N	Y	N	N
09/18/01	261	1	CEDAR	UP	3	WCT	710		104	98	N	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	733		111	104	N	Y	N	N
09/18/01	261	1	CEDAR	UP	1	WCT	744		113	106	N	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	731		114	108	N	Y	N	Y
09/18/01	261	1	CEDAR	UP	3	WCT	715		120	113	N	Y	N	Y
09/18/01	261	1	CEDAR	UP	4	WCT	729		130	123	N	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	734		133	124	N	Y	N	N
09/18/01	261	1	CEDAR	UP	4	WCT	732		149	140	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	511		25		Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	530		25		Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	552		27		Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	567		28		Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	531		29		Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	553		29	28	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	572		29	28	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	537		30	29	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	561		30	29	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	509		31	30	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	544		31	30	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	548		31	30	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	554		31	30	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	575		31	30	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	505		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	510		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	535		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	538		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	539		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	545		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	549		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	562		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	563		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	569		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	570		32	31	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	540		33	32	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	543		33	32	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	568		33	32	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	504		34	33	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	560		34	33	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	576		34	33	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	577		34	33	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	501		35	34	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	506		35	34	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	533		35	34	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	542		35	34	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	541		36	35	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	574		36	35	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	503		37	36	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	534		37	36	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	536		37	36	Y	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	516		78	74	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	527		82	77	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	513		85	80	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	523		86	81	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	559		87	83	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	573		87	83	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	522		88	83	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	512		90	85	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	524		90	85	N	Y	N	N

08/01/01	213	4	CLINTON	LOW	1	WCT	520		95	90	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	517		96	91	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	521		99	93	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	528		99	94	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	532		99	94	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	2	WCT	547		99	93	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	514		110	103	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	519		127	119	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	526		130	122	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	515		142	134	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	518		142	134	N	Y	N	N
08/01/01	213	4	CLINTON	LOW	1	WCT	525		146	138	N	Y	N	N
07/18/01	199	2	COAL	LOW	3	WCT	435		22		Y	Y	N	N
07/18/01	199	2	COAL	LOW	3	WCT	436		22		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	402		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	404		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	409		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	410		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	411		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	424		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	425		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	427		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	3	WCT	432		23		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	403		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	405		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	407		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	408		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	412		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	417		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	418		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	422		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	426		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	431		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	3	WCT	433		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	3	WCT	434		24		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	401		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	406		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	413		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	1	WCT	414		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	416		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	419		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	420		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	421		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	423		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	428		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	430		25		Y	Y	N	N
07/18/01	199	2	COAL	LOW	2	WCT	429		64	60	N	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	511		23		Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	506		26	25	Y	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	530		26		Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	523		30	29	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	502		31	30	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	518		31	30	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	520		32	31	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	522		32	31	Y	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	534		32	31	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	503		34	33	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	507		34	33	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	504		35	34	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	510		35	34	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	501		36	35	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	505		37	36	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	516		37	36	Y	Y	N	N

08/16/01	228	2	COAL	LOW	1	WCT	512		38	37	Y	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	528		38	37	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	514		39	38	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	515		39	38	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	513		40	39	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	517		40	39	Y	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	532		40	39	Y	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	519		41	40	Y	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	529		78	75	N	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	531		83	79	N	Y	N	N
08/16/01	228	2	COAL	LOW	2	WCT	533		98	93	N	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	521		113	107	N	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	508		131	124	N	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	509		159	151	N	Y	N	N
08/16/01	228	2	COAL	LOW	1	WCT	524		217	204	N	Y	N	N
08/17/01	229	2	COAL	LOW	1	WCT	548		31	30	Y	Y	N	N
08/17/01	229	2	COAL	LOW	4	WCT	545		34	33	Y	Y	N	N
08/17/01	229	2	COAL	LOW	1	WCT	547		35	34	Y	Y	N	N
08/17/01	229	2	COAL	LOW	4	WCT	544		36	35	Y	Y	N	N
08/17/01	229	2	COAL	LOW	1	WCT	546		36	35	Y	Y	N	N
08/17/01	229	2	COAL	LOW	4	WCT	543		43	42	Y	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	542		78	74	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	541		83	79	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	536		93	88	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	539		95	89	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	538		101	96	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	540		135	129	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	537		147	138	N	Y	N	N
08/17/01	229	2	COAL	LOW	3	WCT	535		155	146	N	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	704		31	30	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	707		33	32	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	708		42	41	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	719		42	41	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	720		44	42	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	722		44	42	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	723		44	42	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	705		48	46	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	703		49	47	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	709		50	47	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	717		53	51	Y	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	701		57	55	Y	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	714		80	75	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	718		85	81	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	721		94	89	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	716		126	119	N	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	706		134	127	N	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	710		149	142	N	Y	N	N
09/19/01	262	2	COAL	LOW	1	WCT	711		159	151	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	724		163	154	N	Y	N	Y
09/19/01	262	2	COAL	LOW	1	WCT	702		187	177	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	715		200	190	N	Y	N	N
09/19/01	262	2	COAL	LOW	2	WCT	725		212	203	N	Y	N	N
05/30/01	150	2	COAL	MID	3	WCT	7		91	86	N	Y	N	N
05/30/01	150	2	COAL	MID	3	WCT	6		111	105	N	Y	N	N
05/30/01	150	2	COAL	MID	2	WCT	4		120	114	N	Y	N	N
05/30/01	150	2	COAL	MID	1	WCT	3		130	123	N	Y	N	Y
05/30/01	150	2	COAL	MID	1	WCT	2		135	128	N	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	417		21		Y	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	416		23		Y	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	418		23		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	404		24		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	409		24		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	410		24		Y	Y	N	N

07/18/01	199	2	COAL	MID	2	WCT	411		24		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	413		24		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	401		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	402		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	403		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	405		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	406		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	407		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	408		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	412		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	415		25		Y	Y	N	N
07/18/01	199	2	COAL	MID	2	WCT	414		26		Y	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	419		78	74	N	Y	N	N
07/18/01	199	2	COAL	MID	1	WCT	420		152	144	N	Y	N	Y
08/16/01	228	2	COAL	MID	3	WCT	535		23		Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	551		23		Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	531		24		Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	515		25		Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	534		27		Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	532		28		Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	533		28		Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	545		28		Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	529		29		Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	541		30	29	Y	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	530		31	30	Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	512		32	31	Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	544		33	32	Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	542		34	33	Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	510		35	34	Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	511		35	34	Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	543		36	35	Y	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	549		36	35	Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	513		37	36	Y	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	514		38	37	Y	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	507		69	65	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	509		71	67	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	517		71	67	N	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	537		74	70	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	505		77	73	N	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	528		78	73	N	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	547		78	74	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	524		79	75	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	527		79	75	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	506		82	78	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	503		83	79	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	508		84	79	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	518		88	84	N	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	550		90	85	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	516		91	86	N	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	546		101	95	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	520		110	104	N	Y	N	N
08/16/01	228	2	COAL	MID	3	WCT	536		119	112	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	504		140	132	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	519		143	135	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	522		145	138	N	Y	N	N
08/16/01	228	2	COAL	MID	1	WCT	502		155	147	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	523		160	154	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	521		163	153	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	526		163	155	N	Y	N	N
08/16/01	228	2	COAL	MID	2	WCT	525		185	176	N	Y	N	N
08/16/01	228	2	COAL	MID	4	WCT	548		187	177	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	726		32	31	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	722		35	34	Y	Y	N	N

09/19/01	262	2	COAL	MID	3	WCT	734		36	35	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	721		38	37	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	723		39	38	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	725		43	42	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	718		45	43	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	719		46	44	Y	Y	N	N
09/19/01	262	2	COAL	MID	3	WCT	732		46	45	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	724		48	47	Y	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	729		51	49	Y	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	702		53	51	Y	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	709		76	73	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	716		78	74	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	712		80	75	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	703		85	80	N	Y	N	N
09/19/01	262	2	COAL	MID	3	WCT	733		87	83	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	710		93	89	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	704		99	96	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	720		108	102	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	727		109	103	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	728		113	107	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	717		114	107	N	Y	N	Y
09/19/01	262	2	COAL	MID	1	WCT	706		115	108	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	708		124	116	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	701		127	120	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	707		145	139	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	730		146	137	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	714		147	140	N	Y	N	N
09/19/01	262	2	COAL	MID	1	WCT	705		152	144	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	731		177	167	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	715		184	174	N	Y	N	N
09/19/01	262	2	COAL	MID	2	WCT	713		193	185	N	Y	N	Y
07/12/01	193	7	COPPER	MID	1	WCT	15		127	119	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	13		129	122	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	8		131	123	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	9		132	124	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	2		140	134	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	3		142	137	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	10		142	134	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	1		149	141	N	Y	N	Y
07/12/01	193	7	COPPER	MID	1	WCT	7		167	157	N	Y	N	N
07/12/01	193	7	COPPER	MID	1	WCT	11		208	196	N	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	509		20		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	540		21		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	520		22		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	534		22		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	546		22		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	503		23		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	506		23		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	530		24		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	532		24		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	541		24		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	504		25	24	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	525		25		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	542		28		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	517		29	28	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	524		29		Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	508		30	29	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	527		30	29	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	539		30	29	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	549		30	29	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	512		31	30	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	526		31	30	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	553		31	30	Y	Y	N	N

08/02/01	214	3	FLAT	LOW	1	WCT	516		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	522		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	531		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	533		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	543		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	548		32	31	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	502		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	511		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	513		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	521		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	535		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	536		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	544		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	547		33	32	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	505		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	523		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	528		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	529		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	537		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	538		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	550		34	33	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	501		35	34	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	515		35	34	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	519		36	35	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	552		36	35	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	545		37	36	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	554		37	36	Y	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	555		77	73	N	Y	N	N
08/02/01	214	3	FLAT	LOW	2	WCT	551		81	78	N	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	514		85	81	N	Y	N	N
08/02/01	214	3	FLAT	LOW	1	WCT	518		185	178	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	31		27		Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	7		28		Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	44		28		Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	9		29		Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	52		29	28	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	36		30	29	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	34		31	30	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	43		31	30	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	46		31	30	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	53		31	30	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	45		32	31	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	51		32	31	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	32		33	32	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	13		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	19		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	24		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	26		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	30		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	49		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	50		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	56		35	34	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	1		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	4		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	8		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	29		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	41		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	48		36	35	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	47		37	36	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	11		38	37	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	12		38	37	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	38		38	37	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	58		38	37	Y	Y	N	N

08/08/01	220	5	HALSEY	LOW	2	WCT	33		39	38	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	54		40	39	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	60		40	39	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	18		42	41	Y	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	10		45	44	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	6		53	51	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	5		54	52	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	23		55	52	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	14		56	53	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	25		56	54	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	28		79	74	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	40		85	81	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	20		90	85	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	35		91	86	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	59		96	91	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	42		98	93	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	1	WCT	27		102	101	N	Y	N	N
08/08/01	220	5	HALSEY	LOW	2	WCT	39		112	106	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	30		55	52	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	33		55	52	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	27		58	56	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	37		60	57	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	29		64	61	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	32		65	62	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	35		65	62	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	36		66	63	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	26		70	67	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	31		70	67	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	34		71	67	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	28		72	68	N	Y	N	N
05/29/01	149	6	IRON	LOW	2	WCT	38		72	69	N	Y	N	N
05/29/01	149	6	IRON	LOW	1	WCT	19		108	102	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	109		59	56	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	106		72	69	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	103		73	69	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	105		76	72	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	104		82	78	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	107		82	78	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	102		99	94	N	Y	N	N
06/24/01	175	6	IRON	LOW	1	WCT	108		115	109	N	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	407		24		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	420		25		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	421		25		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	423		25		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	431		25		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	432		25		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	409		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	413		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	414		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	416		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	418		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	429		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	435		26		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	406		27		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	411		27		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	417		27		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	424		27		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	433		27		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	405		28		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	408		28		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	419		28		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	426		28		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	410		29		Y	Y	N	N

07/19/01	200	6	IRON	LOW	1	WCT	415		29		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	427		29		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	428		29		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	430		29		Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	412		30	29	Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	422		30	29	Y	Y	N	N
07/19/01	200	6	IRON	LOW	1	WCT	425		30		Y	Y	N	N
07/19/01	200	6	IRON	LOW	2	WCT	434		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	524		27		Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	570		27		Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	577		28		Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	539		29	28	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	514		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	525		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	552		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	584		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	587		30	29	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	533		31	30	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	541		31	30	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	542		31	30	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	572		31	30	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	505		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	526		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	527		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	530		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	545		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	555		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	557		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	558		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	561		32	30	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	563		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	576		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	588		32	31	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	512		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	531		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	534		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	546		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	548		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	580		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	586		33	32	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	513		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	547		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	569		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	573		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	582		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	589		34	33	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	501		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	502		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	510		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	529		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	532		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	540		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	553		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	560		35	34	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	508		36	35	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	509		36	35	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	511		36	35	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	556		36	35	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	503		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	504		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	506		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	528		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	543		37	36	Y	Y	N	N

08/06/01	218	6	IRON	LOW	1	WCT	562		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	568		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	578		37	36	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	554		39	38	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	581		39	38	Y	Y	N	N
08/06/01	218	6	IRON	LOW	2	WCT	585		39	38	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	559		40	39	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	507		41	40	Y	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	537		78	73	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	565		80	75	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	575		95	89	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	544		104	98	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	536		108	102	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	535		109	103	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	564		127	120	N	Y	N	N
08/06/01	218	6	IRON	LOW	1	WCT	515		222	213	N	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	619		27		Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	594		30	29	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	603		31	30	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	596		32	31	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	607		32	31	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	595		33	32	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	599		34	33	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	601		34	33	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	604		34	33	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	606		34	33	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	612		34	33	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	592		35	34	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	613		35	34	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	602		36	35	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	611		36	35	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	593		37	36	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	600		37	36	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	605		39	38	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	609		39	38	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	618		39	38	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	591		40	39	Y	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	597	597-01	76	72	N	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	608		97	91	N	Y	N	N
08/07/01	219	6	IRON	LOW	2	WCT	626		114	108	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	770		36	35	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	749		41	39	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	769		42	40	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	761		43	41	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	750		44	42	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	759		44	43	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	718		46	45	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	738		46	44	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	762		46	44	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	765		46	44	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	731		47	45	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	757		48	47	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	726		49	47	Y	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	766		49	47	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	727		50	49	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	730		50	48	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	729		51	49	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	732		51	49	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	716		52	51	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	712		53	51	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	715		54	52	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	736		55	53	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	717		56	54	Y	Y	N	N

09/20/01	263	6	IRON	LOW	2	WCT	747		56	54	Y	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	723		76	71	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	714		82	77	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	760		83	78	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	773		83	77	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	734		84	79	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	711		88	84	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	721		89	84	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	771		92	87	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	713		93	88	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	758		95	90	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	737		99	94	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	753		99	93	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	751		103	97	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	763		103	97	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	767		103	97	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	725		104	97	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	728		105	98	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	733		107	101	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	754		109	102	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	764		109	102	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	772		109	102	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	748		113	107	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	724		116	109	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	722		117	110	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	710		118	112	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	735		129	121	N	Y	N	N
09/20/01	263	6	IRON	LOW	2	WCT	752		138	128	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	719		164	153	N	Y	N	N
09/20/01	263	6	IRON	LOW	1	WCT	720		175	164	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	532		29	28	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	522		30	29	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	523		31	30	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	521		32	31	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	537		32	31	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	540		32	31	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	517		33	32	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	515		34	33	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	519		35	34	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	520		35	34	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	528		35	34	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	513		36	35	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	516		36	35	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	529		36	35	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	514		37	36	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	526		37	36	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	527		37	36	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	533		37	36	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	535		39	38	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	518		41	40	Y	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	541		81	76	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	534		82	77	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	538		82	78	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	530		89	84	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	524		93	88	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	539		94	89	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	531		95	90	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	525		99	94	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	546		104	99	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	536		129	122	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	545		133	125	N	Y	N	N
08/07/01	219	6	IRON	MID	1	WCT	542		164	156	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	36		45	44	N	Y	N	N

05/28/01	148	6	IRON	UP	3	WCT	30		48	46	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	32		48	47	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	29		49	47	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	34		49	48	N	Y	N	N
05/28/01	148	6	IRON	UP	2	WCT	13		50	48	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	33		52	50	N	Y	N	N
05/28/01	148	6	IRON	UP	2	WCT	15		55	53	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	31		57	55	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	37		60	57	N	Y	N	N
05/28/01	148	6	IRON	UP	2	WCT	14		94	88	N	Y	N	N
05/28/01	148	6	IRON	UP	3	WCT	35		134	128	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	110		54	52	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	101		55	52	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	108		61	58	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	109		68	65	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	107		71	68	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	102		73	69	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	106		76	72	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	104		152	143	N	Y	N	Y
06/24/01	175	6	IRON	UP	1	WCT	103		162	153	N	Y	N	N
06/24/01	175	6	IRON	UP	1	WCT	105		169	159	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	402		24		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	408		24		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	410		24		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	446		24		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	403		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	404		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	405		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	406		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	407		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	409		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	411		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	412		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	413		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	414		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	415		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	426		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	429		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	430		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	431		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	432		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	433		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	434		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	436		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	437		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	438		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	439		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	440		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	447		25		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	427		26		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	428		26		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	443		26		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	442		27		Y	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	449		61	59	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	421		67	64	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	419		68	64	N	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	448		70	66	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	420		72	68	N	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	435		73	70	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	416		75	72	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	418		79	76	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	417		103	97	N	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	445		121	115	N	Y	N	N

07/19/01	200	6	IRON	UP	1	WCT	422		123	118	N	Y	N	N
07/19/01	200	6	IRON	UP	2	WCT	444		147	139	N	Y	N	N
07/19/01	200	6	IRON	UP	1	WCT	423		150	142	N	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	537		21		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	513		22		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	527		23		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	533		23		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	535		23		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	538		23		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	534		26		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	536		27		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	529		28		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	531		28		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	532		28		Y	Y	N	N
08/07/01	219	6	IRON	UP	3	WCT	546		28		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	508		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	510		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	512		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	514		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	530		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	3	WCT	544		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	3	WCT	545		29		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	511		30		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	520		30		Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	526		30	29	Y	Y	N	N
08/07/01	219	6	IRON	UP	3	WCT	543		30		Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	505		31	30	Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	507		31	30	Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	506		32	31	Y	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	528		32	31	Y	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	509		67	63	N	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	540		67	64	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	518		70	66	N	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	542		72	68	N	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	539		78	75	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	519		89	84	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	515		102	96	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	517		114	108	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	516		119	114	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	522		119	112	N	Y	N	N
08/07/01	219	6	IRON	UP	2	WCT	541		125	118	N	Y	N	N
08/07/01	219	6	IRON	UP	1	WCT	521		154	144	N	Y	N	Y
09/21/01	264	6	IRON	UP	2	WCT	745		35	34	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	728		37	36	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	704		38	37	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	715		38	37	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	703		39	38	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	770		39	38	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	702		40	39	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	713		40	39	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	710		41	40	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	708		43	42	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	717		43	42	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	768		43	42	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	729		44	43	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	744		44	43	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	746		44	43	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	747		44	43	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	757		44	43	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	727		45	44	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	759		45	44	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	722		46	45	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	766		46	45	Y	Y	N	N

09/21/01	264	6	IRON	UP	1	WCT	711		47	46	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	716		47	46	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	765		47	46	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	740		48	47	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	758		48	47	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	761		48	47	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	764		48	47	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	707		49	48	Y	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	748		49	48	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	771		49	47	Y	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	705		50	48	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	754		50	48	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	760		51	50	Y	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	753		66	62	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	709		78	73	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	769		80	76	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	772		80	76	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	750		81	76	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	706		82	77	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	731		82	77	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	730		83	79	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	721		84	79	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	719		85	80	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	742		85	80	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	743		85	80	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	767		85	80	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	752		87	82	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	714		88	83	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	726		89	83	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	749		89	83	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	763		89	84	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	741		90	86	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	738		92	86	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	735		93	88	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	756		94	89	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	720		100	84	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	718		123	116	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	725		123	115	N	Y	N	Y
09/21/01	264	6	IRON	UP	2	WCT	724		125	118	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	755		125	117	N	Y	N	N
09/21/01	264	6	IRON	UP	3	WCT	762		125	119	N	Y	N	Y
09/21/01	264	6	IRON	UP	2	WCT	732		127	120	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	737		132	123	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	723		135	127	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	733		137	130	N	Y	N	N
09/21/01	264	6	IRON	UP	1	WCT	712		142	134	N	Y	N	Y
09/21/01	264	6	IRON	UP	2	WCT	739		151	144	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	736		153	144	N	Y	N	N
09/21/01	264	6	IRON	UP	2	WCT	751		184	174	N	Y	N	Y
09/21/01	264	6	IRON	UP	2	WCT	734		187	175	N	Y	N	Y
04/15/01	105	1	LONESOME	LOW	1	WCT	4		118	110	N	Y	N	N
04/15/01	105	1	LONESOME	LOW	1	WCT	6		118	110	N	Y	N	N
04/15/01	105	1	LONESOME	LOW	1	WCT	1		119		N	Y	N	N
04/15/01	105	1	LONESOME	LOW	1	WCT	5		129	120	N	Y	N	N
04/15/01	105	1	LONESOME	LOW	1	WCT	2		157		N	Y	N	N
04/15/01	105	1	LONESOME	LOW	1	WCT	3		161	150	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	113		26		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	114		26		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	120		26		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	121		26		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	1	WCT	106		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	2	WCT	107		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	2	WCT	112		27		Y	Y	N	N

06/20/01	171	1	LONESOME	LOW	3	WCT	117		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	119		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	4	WCT	123		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	5	WCT	125		27		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	5	WCT	126		28		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	115		29		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	3	WCT	118		29		Y	Y	N	N
06/20/01	171	1	LONESOME	LOW	1	WCT	104		101	96	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	1	WCT	103		104	98	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	2	WCT	111		115	110	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	4	WCT	124		127	121	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	2	WCT	110		129	122	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	2	WCT	109		130	122	N	Y	N	N
06/20/01	171	1	LONESOME	LOW	1	WCT	105		131	125	N	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	132		26		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	137		26		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	139		26		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	144		26		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	127		27		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	129		27		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	133		27		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	146		27		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	147		27		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	128		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	130		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	134		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	135		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	136		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	141		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	143		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	145		28		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	131		29		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	140		29		Y	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	149		78	74	N	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	142		83	78	N	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	138		84	80	N	Y	N	N
06/21/01	172	1	LONESOME	LOW	6	WCT	148		115	109	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	406		28		Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	417		29	28	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	424		29	28	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	428		29	28	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	410		30	29	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	426		30	29	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	2	WCT	439		30	29	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	414		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	416		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	418		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	419		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	422		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	427		31	30	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	407		32	31	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	412		32	31	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	420		32	31	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	2	WCT	436		32	31	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	408		33	32	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	411		33	32	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	413		33	32	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	423		33	32	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	2	WCT	438		33	32	Y	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	425		35	34	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	415		36	35	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	421		36	35	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	429		37	36	N	Y	N	N

07/16/01	197	1	LONESOME	LOW	1	WCT	432		37	36	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	409		38	37	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	431		39	38	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	430		41	40	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	1	WCT	405		43	42	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	2	WCT	437		89	83	N	Y	N	N
07/16/01	197	1	LONESOME	LOW	2	WCT	435		133	125	N	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	508		30	29	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	527		30	32	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	528		30	29	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	506		31	30	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	536		31	30	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	509		32	31	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	520		32	31	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	523		32	31	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	511		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	512		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	513		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	529		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	517		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	522		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	538		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	521		36	35	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	525		36	35	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	507		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	515		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	510		38	37	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	519		38	37	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	537		38	37	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	518		40	39	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	526		40	39	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	516		41	40	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	514		42	41	Y	Y	N	N
08/09/01	221	1	LONESOME	LOW	1	WCT	524		43	42	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	777		34	33	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	702		35	34	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	754		35	34	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	764		37	36	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	768		37	36	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	715		38	37	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	726		39	38	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	772		39	38	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	755		40	39	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	766		40	39	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	725		41	40	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	760		41	40	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	728		42	41	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	753		42	41	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	778		42	41	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	771		43	42	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	730		44	42	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	735		44	42	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	761		44	43	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	779		44	43	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	757		46	45	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	763		46	45	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	722		47	45	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	711		48	46	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	752		49	47	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	770		49	47	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	712		50	48	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	719		51	49	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	731		51	49	Y	Y	N	N

09/18/01	261	1	LONESOME	LOW	2	WCT	748		52	50	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	706		53	51	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	747		53	51	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	707		54	51	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	758		54	51	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	762		55	53	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	729		56	53	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	723		57	55	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	749		57	55	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	776		59	56	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	724		60	57	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	765		60	57	Y	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	745		83	79	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	736		84	80	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	767		84	78	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	773		89	84	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	714		90	85	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	701		91	86	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	741		91	86	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	720		94	88	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	717		98	92	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	718		99	92	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	705		109	102	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	716		110	103	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	775		110	104	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	708		115	108	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	709		117	110	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	744		117	110	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	713		119	113	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	743		119	112	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	721		120	113	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	738		121	114	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	727		122	114	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	756		123	117	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	740		127	119	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	734		128	120	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	733		129	121	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	703		130	123	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	742		131	124	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	710		132	123	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	759		133	125	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	751		138	130	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	3	WCT	774		141	132	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	750		142	133	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	1	WCT	704		148	141	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	737		152	143	N	Y	N	N
09/18/01	261	1	LONESOME	LOW	2	WCT	739		184	172	N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	53		42		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	45		43		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	46		44		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	62		44		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	50		45		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	49		46		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	59		46		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	47		47		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	58		47		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	56		50		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	57		50		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	60		55		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	61		55		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	48		56		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	52		56		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	51		60		N	Y	N	N

04/14/01	104	1	LONESOME	UP	1	WCT	55		70		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	7		80		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	8		81		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	54		82		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	20		85		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	5		91		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	19		95		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	9		99		N	Y	N	Y
04/14/01	104	1	LONESOME	UP	1	WCT	1		103		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	2		106		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	3		127		N	Y	N	Y
04/14/01	104	1	LONESOME	UP	1	WCT	4		138		N	Y	N	N
04/14/01	104	1	LONESOME	UP	1	WCT	6		178		N	Y	N	Y
06/22/01	173	1	LONESOME	UP	1	WCT	114		62	59	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	108		64	61	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	113		66	62	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	119		66	63	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	111		67	64	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	112		67	64	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	129		67	64	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	104		68	65	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	109		68	65	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	118		68	65	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	103		69	66	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	105		70	66	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	110		71	67	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	117		71	68	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	126		71	68	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	115		74	71	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	107		75	72	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	106		78	75	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	116		82	79	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	120		82	77	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	127		82	78	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	128		82	78	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	122		85	80	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	124		85	81	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	121		86	82	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	125		86	81	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	123		87	83	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	102		108	103	N	Y	N	N
06/22/01	173	1	LONESOME	UP	1	WCT	101		115	110	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	441		26		Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	428		28		Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	450		28	27	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	442		29		Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	449		29	28	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	413		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	414		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	419		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	420		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	430		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	452		30	29	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	403		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	416		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	423		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	424		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	427		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	431		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	437		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	446		31	30	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	406		32	31	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	408		32	31	Y	Y	N	N

07/17/01	198	1	LONESOME	UP	1	WCT	415		32	31	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	453		32	31	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	405		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	409		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	410		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	412		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	422		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	438		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	447		33	32	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	411		34	33	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	418		34	33	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	429		34	33	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	444		34	33	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	439		36	35	Y	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	440		63	59	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	436		64	60	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	407		67	63	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	425		68	65	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	451		70	66	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	404		72	69	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	454		72	69	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	421		73	69	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	435		75	71	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	417		77	73	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	426		84	79	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	445		84	80	N	Y	N	N
07/17/01	198	1	LONESOME	UP	1	WCT	432		86	83	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	443		87	82	N	Y	N	N
07/17/01	198	1	LONESOME	UP	2	WCT	448		106	100	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	509		28		Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	538		31	30	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	514		32	31	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	554		32	31	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	517		33	32	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	519		33	32	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	518		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	532		34	33	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	529		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	547		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	550		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	553		35	34	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	521		36	35	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	522		36	35	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	511		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	513		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	523		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	533		37	36	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	551		38	37	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	531		39	38	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	549		40	39	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	515		41	40	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	528		42	41	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	530		42	41	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	552		42	41	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	510		43	42	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	520		45	44	Y	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	544		65	61	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	527		69	65	N	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	548		71	67	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	539		72	68	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	543		74	70	N	Y	N	N
08/09/01	221	1	LONESOME	UP	2	WCT	555		74	70	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	524		75	71	N	Y	N	N

08/09/01	221	1	LONESOME	UP	1	WCT	525		75	71	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	536		75	70	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	537		78	74	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	541		78	73	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	512		80	76	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	540		83	78	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	542		84	80	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	516		89	84	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	535		92	86	N	Y	N	N
08/09/01	221	1	LONESOME	UP	1	WCT	534		108	102	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	708		33	32	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	742		33	32	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	758		34	33	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	710		35	34	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	732		35	34	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	755		35	34	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	702		36	35	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	725		36	35	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	747		36	35	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	731		37	36	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	756		37	36	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	761		37	36	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	726		38	37	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	740		38	37	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	706		39	38	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	715		39	38	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	759		39	38	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	733		40	39	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	741		40	39	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	712		41	40	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	737		41	40	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	727		42	41	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	736		42	41	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	760		43	42	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	734		44	43	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	723		45	43	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	722		46	44	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	749		46	45	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	757		46	44	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	738		47	46	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	746		48	47	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	703		50	48	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	724		50	48	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	752		50	48	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	705		62	58	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	716		63	59	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	745		66	62	Y	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	721		70	66	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	751		70	66	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	753		70	66	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	713		72	68	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	720		72	68	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	754		74	70	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	704		75	71	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	707		75	70	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	743		75	71	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	735		76	72	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	718		77	73	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	711		78	73	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	730		79	75	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	729		82	78	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	714		84	79	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	728		85	80	N	Y	N	N

09/17/01	260	1	LONESOME	UP	1	WCT	739		86	81	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	762		90	84	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	717		92	87	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	748		94	89	N	Y	N	N
09/17/01	260	1	LONESOME	UP	2	WCT	750		94	89	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	701		95	90	N	Y	N	Y
09/17/01	260	1	LONESOME	UP	2	WCT	744		109	103	N	Y	N	N
09/17/01	260	1	LONESOME	UP	1	WCT	709		110	104	N	Y	N	Y
09/17/01	260	1	LONESOME	UP	1	WCT	719		113	106	N	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	26		27		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	39		27		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	29		28		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	35		28		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	40		28		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	41		28		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	42		28		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	20		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	21		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	25		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	27		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	32		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	36		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	38		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	43		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	44		29		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	31		30		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	34		30		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	37		30		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	18		31		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	19		31		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	22		31		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	30		31		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	24		32		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	33		32		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	28		33		Y	Y	N	N
07/13/01	194	1	MARIE	LOW	1	WCT	47		133	126	N	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	35		26		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	41		26		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	11		27		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	12		27		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	19		27		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	33		27		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	3		28		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	5		28		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	14		28		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	23		28		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	15		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	17		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	18		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	21		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	27		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	28		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	31		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	36		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	42		29		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	8		30		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	13		30		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	26		30		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	29		30		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	37		30		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	9		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	20		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	22		31		Y	Y	N	N

07/11/01	192	1	MARIE	MID	2	WCT	25		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	30		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	32		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	34		31		Y	Y	N	N
07/11/01	192	1	MARIE	MID	3	WCT	45		33		Y	Y	N	N
07/11/01	192	1	MARIE	MID	1	WCT	16		36		Y	Y	N	N
07/11/01	192	1	MARIE	MID	2	WCT	40		152	144	N	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	24		27		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	26		27		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	21		28		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	22		28		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	25		28		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	13		29		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	14		29		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	19		29		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	23		30		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	34		30		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	37		30		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	38		30		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	16		31		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	27		31		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	36		31		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	39		31		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	41		31		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	15		32		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	20		33		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	35		34		Y	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	42		35		Y	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	11		132	125	N	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	33		134	127	N	Y	N	N
07/11/01	192	1	MARIE	UP	2	WCT	40		140	132	N	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	12		147	140	N	Y	N	N
07/11/01	192	1	MARIE	UP	1	WCT	17		149	140	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	55		20		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	30		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	36		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	39		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	42		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	44		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	47		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	56		21		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	29		22		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	31		22		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	54		22		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	32		23		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	33		23		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	37		23		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	51		23		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	53		23		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	34		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	35		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	40		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	43		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	45		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	46		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	52		24		Y	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	3		121	113	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	10		131	124	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	25		136	129	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	1		137	128	N	Y	N	Y
07/26/01	207	6	SKOOKUM	LOW	2	WCT	8		137	130	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	9		137	129	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	2		138	132	N	Y	N	N

07/26/01	207	6	SKOOKUM	LOW	1	WCT	5		142	133	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	11		170	161	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	22		170	161	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	24		183	177	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	4		186	176	N	Y	N	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	41		214	204	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	536		26		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	529		29	28	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	538		30	29	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	509		31	30	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	537		32	31	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	554		33	32	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	534		34	33	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	548		34	33	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	515		35	34	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	530		35	34	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	512		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	528		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	511		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	513		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	514		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	527		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	531		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	533		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	550		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	551		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	532		38	37	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	547		38	37	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	549		38	37	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	535		39	38	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	510		40	39	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	522		40	39	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	546		40	39	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	552		40	39	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	525		63	61	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	557		71	67	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	507		78	74	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	517		80	76	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	524		87	82	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	519		89	84	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	518		91	87	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	556		92	87	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	543		110	104	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	506		112	97	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	502		113	108	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	523		115	110	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	558		115	109	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	542		124	116	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	505		130	123	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	520		130	123	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	503		136	130	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	544		136	129	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	504		137	131	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	559		143	136	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	521		150	143	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	545		154	145	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	526		198	190	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	508		210	198	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	551		21		Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	521		28		Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	536		31	30	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	545		31	30	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	538		32	31	Y	Y	N	N

08/15/01	227	6	TOM_LAVIN	MID	3	WCT	539		32	31	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	520		33	32	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	504		34	33	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	518		34	33	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	519		34	33	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	537		34	33	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	542		34	33	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	502		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	503		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	516		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	533		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	535		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	541		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	546		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	548		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	549		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	550		35	34	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	522		36	35	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	531		36	35	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	532		36	35	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	543		36	35	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	515		37	36	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	517		37	36	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	523		37	36	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	547		37	36	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	534		38	37	Y	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	510		70	66	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	524		75	71	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	540		78	74	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	552		81	77	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	525		87	82	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	513		99	94	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	554		111	106	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	511		112	106	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	553		113	106	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	512		115	109	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	505		126	119	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	508		132	125	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	506		140	133	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	509		145	138	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	526		152	147	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	507		159	150	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	527		173	165	N	Y	N	Y
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	41		38	37	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	42		44	43	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	25		45	44	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	43		45	44	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	24		46	45	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	27		46	45	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	31		46	44	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	23		47	45	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	38		47	45	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	39		48	47	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	40		48	46	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	28		50	48	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	33		50	48	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	37		50	49	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	26		55	53	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	34		81	77	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	21		84	79	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	30		93	88	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	32		121	114	N	Y	N	N
06/03/01	154	6	TOM_LAVIN	UP	2	WCT	29		134	127	N	Y	N	N

06/03/01	154	6	TOM_LAVIN	UP	3	WCT	44		169	160	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	109		47	45	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	105		54	52	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	108		54	52	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	112		54	52	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	103		55	53	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	111		56	54	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	101		57	55	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	107		60	58	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	106		62	59	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	110		84	80	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	104		91	87	N	Y	N	N
06/24/01	175	6	TOM_LAVIN	UP	1	WCT	102		99	95	N	Y	N	N
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	566		23		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	543		24		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	538		28		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	542		28		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	541		29		Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	557		30	29	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	559		30	29	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	539		31	30	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	564		31	30	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	518		32	31	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	540		32	31	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	537		33	32	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	536		34	33	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	558		34	33	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	510		35	34	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	565		35	34	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	509		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	511		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	513		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	555		36	35	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	517		37	36	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	512		39	38	Y	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	546		67	64	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	567		71	67	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	560		73	70	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	548		75	72	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	547		84	80	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	568		107	101	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	535		112	106	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	514		115	99	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	516		115	109	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	515		133	126	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	534		142	135	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	508		169	162	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	545		182	173	N	Y	N	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	544		185	177	N	Y	N	UNK
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	729		34	33	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	744		35	34	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	717		36	35	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	742		36	35	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	754		36	35	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	740		37	36	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	746		38	37	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	751		39	38	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	757		39	38	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	721		40	39	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	760		40	39	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	722		41	40	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	752		41	40	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	711		42	41	Y	Y	N	N

09/21/01	264	6	TOM_LAVIN	UP	1	WCT	720		42	41	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	723		42	41	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	747		42	41	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	741		43	42	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	749		43	42	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	753		43	42	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	755		43	42	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	756		44	43	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	714		45	44	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	718		45	44	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	739		45	44	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	705		46	45	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	713		47	46	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	725		48	47	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	738		49	47	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	719		52	50	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	724		53	51	Y	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	762		63	61	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	759		64	61	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	712		70	66	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	728		70	66	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	707		73	69	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	731		73	68	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	750		73	70	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	763		73	69	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	704		75	70	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	745		75	71	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	748		75	71	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	761		75	70	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	737		81	77	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	758		81	78	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	736		85	80	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	710		87	75	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	743		97	91	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	730		104	97	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	732		105	99	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	733		113	106	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	716		132	126	N	Y	N	Y
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	727		148	140	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	726		152	145	N	Y	N	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	715		153	145	N	Y	N	N
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	808		61	59	Y	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	845		61	58	Y	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	849		63	61	Y	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	803		72	70	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	810		72	69	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	844		72	69	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	846		72	69	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	816		73	70	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	841		73	70	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	848		74	71	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	813		76	73	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	843		76	73	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	842		77	74	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	811		80	77	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	853		81	78	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	835		88	84	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	815		100	96	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	838		107	105	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	836		110	107	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	839		112	109	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	814		113	109	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	806		117	113	N	Y	N	UNK

10/13/01	286	6	TOM_LAVIN	UP	2	WCT	837		119	115	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	809		150	143	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	834		171	166	N	Y	N	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	832		218	198	N	Y	N	UNK
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	541		22		Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	530		23		Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	508		25		Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	543		26		Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	503		27	26	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	540		28	27	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	548		28		Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	501		30	29	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	534		38	37	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	538		38	37	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	539		38	37	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	545		40	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	551		40	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	510		41	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	529		41	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	535		41	40	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	546		41	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	547		41	39	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	555		41	40	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	502		42	40	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	532		42	41	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	537		42	41	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	549		42	41	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	509		44	42	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	550		44	42	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	553		44	43	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	554		44	42	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	536		45	43	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	504		46	44	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	505		46	45	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	542		46	45	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	557		46	44	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	507		47	45	Y	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	513		76	71	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	531		76	71	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	556		80	75	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	525		84	79	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	520		86	80	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	515		89	83	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	518		93	87	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	517		97	90	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	512		103	97	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	558		110	103	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT/RBT	544		129	120	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	524		141	134	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	527		142	137	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	514		143	135	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	521		143	135	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	523		151	142	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	559		168	159	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	516		169	161	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	522		170	160	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	519		189	179	N	Y	N	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	526		215	205	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	514		31	30	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	516		31	30	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	539		33	32	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	508		34	33	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	530		34	33	Y	Y	N	N

08/17/01	229	3	YELLOWDOG	MID	2	WCT	532		34	33	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	533		34	33	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	510		35	34	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	509		36	35	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	534		36	35	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	507		37	36	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	527		37	36	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	528		37	36	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	538		39	38	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	511		40	39	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	517		40	39	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	526		40	39	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	529		40	39	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	547		41	40	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	515		42	41	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	531		43	42	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	537		47	46	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	549		47	46	Y	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	544		81	76	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	541		84	79	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	520		90	85	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	519		100	94	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	542		101	95	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	540		110	103	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	550		112	106	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	518		131	123	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	543		132	124	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	521		138	130	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	503		141	133	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	546		158	149	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	512		205	194	N	Y	N	Y
08/17/01	229	3	YELLOWDOG	MID	2	WCT	545		205	194	N	Y	N	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	513		230	217	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	3	WCT	13		88	83	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	5	WCT	7		91	86	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	5	WCT	8		95	90	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	4	WCT	10		100	94	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	6	WCT	4		104	98	N	Y	N	N
06/01/01	152	3	YELLOWDOG	UP	5	WCT	6		106	100	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	49		72	68	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	43	43-01	73	69	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	11	WCT	44		80	75	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	11	WCT	45		80	75	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	9	WCT	32		82	78	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	23		83	78	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	22		84	79	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	30		84	79	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	26		85	80	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	27		86	81	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	21		89	84	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	40		89	84	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	11	WCT	46		89	84	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	39		90	85	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	41		91	85	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	42		91	86	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	50		98	92	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	28		100	94	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	9	WCT	33		101	95	N	Y	N	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	29		102	96	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	108		56	54	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	106		57	54	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	107		60	57	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	1	WCT	103		64	60	N	Y	N	N

06/23/01	174	3	YELLOWDOG	UP	2	WCT	109		68	65	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	1	WCT	101		69	64	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	1	WCT	104		70	66	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	105		103	97	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	110		112	106	N	Y	N	N
06/23/01	174	3	YELLOWDOG	UP	1	WCT	102		208	198	N	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	1	WCT	402		21		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	1	WCT	404		21		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	1	WCT	405		21		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	406		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	407		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	408		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	409		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	410		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	411		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	413		22		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	1	WCT	401		23		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	1	WCT	403		23		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	2	WCT	412		23		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	3	WCT	415		23		Y	Y	N	N
07/20/01	201	3	YELLOWDOG	UP	3	WCT	414		25		N	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	4	WCT	418		21		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	421		21		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	4	WCT	416		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	4	WCT	417		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	420		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	422		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	423		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	424		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	425		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	426		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	427		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	428		22		Y	Y	N	N
07/21/01	202	3	YELLOWDOG	UP	5	WCT	419		23		Y	Y	N	N
08/16/01	228	3	YELLOWDOG	UP	4	WCT	560		23		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	543		24		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	561		24		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	563		24		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	564		24		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	505		25		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	544		25		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	559		25		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	562		25		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	565		25		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	558		26		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	536		27		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	541		27		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	501		28		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	539		29		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	550		29		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	553		29		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	537		30		Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	545		30	29	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	546		31	30	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	540		32	31	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	549		32	31	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	552		32	31	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	554		32	31	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	547		34	33	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	4	WCT	557		34	33	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	551		35	34	Y	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	538		68	65	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	542		69	66	N	Y	N	UNK

08/16/01	228	3	YELLOWDOG	UP	4	WCT	566		71	67	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	548		75	71	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	555		86	82	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	507		100	94	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	506		117	113	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	504		121	114	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	503		123	117	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	521		126	118	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	519		130	124	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	522		132	128	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	520		144	135	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	502		145	138	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	517		182	171	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	529		187	177	N	Y	N	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	518		190	180	N	Y	N	UNK
09/20/01	263	3	YELLOWDOG	UP	4	WCT	735		48	46	Y	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	714		74	70	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	732		77	73	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	718		82	77	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	729		82	77	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	738		84	80	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	711		85	80	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	701		88	83	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	703		88	83	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	721		88	82	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	734		89	84	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	705		91	86	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	708		91	86	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	706		93	87	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	720		94	88	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	709		97	91	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	741		97	92	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	723		108	101	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	740		110	104	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	702		114	106	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	731		115	106	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	724		120	113	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	710		122	115	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	715		123	116	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	2	WCT	717		124	116	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	722		133	125	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	704		134	127	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	736		137	129	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	737		140	132	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	726		155	145	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	707		171	163	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	1	WCT	712		172	163	N	Y	N	Y
09/20/01	263	3	YELLOWDOG	UP	4	WCT	739		172	163	N	Y	N	Y
09/20/01	263	3	YELLOWDOG	UP	1	WCT	713		173	163	N	Y	N	Y
09/20/01	263	3	YELLOWDOG	UP	2	WCT	716		176	167	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	725		176	165	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	728		179	169	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	3	WCT	727		185	176	N	Y	N	Y
09/20/01	263	3	YELLOWDOG	UP	2	WCT	719		207	198	N	Y	N	N
09/20/01	263	3	YELLOWDOG	UP	4	WCT	733		211	202	N	Y	N	N
05/31/01	151	2	COAL	LOW	1	WCT	5	5-01	52	50	N	Y	Y	N
05/31/01	151	2	COAL	LOW	1	WCT	1	1-01	61	58	N	Y	Y	N
05/31/01	151	2	COAL	LOW	1	WCT	3	3-01	70	66	N	Y	Y	N
05/31/01	151	2	COAL	LOW	1	WCT	6	6-01	71	68	N	Y	Y	N
05/31/01	151	2	COAL	LOW	1	WCT	4	4-01	76	72	N	Y	Y	N
05/31/01	151	2	COAL	LOW	1	WCT	2	2-01	81	77	N	Y	Y	N
05/31/01	151	2	COAL	LOW	3	WCT	15	15-01	43	42	N	Y	Y	N
05/31/01	151	2	COAL	LOW	2	WCT	10	10-01	50	48	N	Y	Y	N

08/16/01	YELLOWDOG	UP	566	
08/16/01	YELLOWDOG	UP	548	
08/16/01	YELLOWDOG	UP	555	
08/16/01	YELLOWDOG	UP	507	
08/16/01	YELLOWDOG	UP	506	
08/16/01	YELLOWDOG	UP	504	
08/16/01	YELLOWDOG	UP	503	
08/16/01	YELLOWDOG	UP	521	
08/16/01	YELLOWDOG	UP	519	
08/16/01	YELLOWDOG	UP	522	
08/16/01	YELLOWDOG	UP	520	
08/16/01	YELLOWDOG	UP	502	
08/16/01	YELLOWDOG	UP	517	
08/16/01	YELLOWDOG	UP	529	
08/16/01	YELLOWDOG	UP	518	
09/20/01	YELLOWDOG	UP	735	
09/20/01	YELLOWDOG	UP	714	
09/20/01	YELLOWDOG	UP	732	
09/20/01	YELLOWDOG	UP	718	
09/20/01	YELLOWDOG	UP	729	
09/20/01	YELLOWDOG	UP	738	
09/20/01	YELLOWDOG	UP	711	
09/20/01	YELLOWDOG	UP	701	
09/20/01	YELLOWDOG	UP	703	
09/20/01	YELLOWDOG	UP	721	
09/20/01	YELLOWDOG	UP	734	
09/20/01	YELLOWDOG	UP	705	
09/20/01	YELLOWDOG	UP	708	
09/20/01	YELLOWDOG	UP	706	
09/20/01	YELLOWDOG	UP	720	
09/20/01	YELLOWDOG	UP	709	
09/20/01	YELLOWDOG	UP	741	
09/20/01	YELLOWDOG	UP	723	
09/20/01	YELLOWDOG	UP	740	
09/20/01	YELLOWDOG	UP	702	
09/20/01	YELLOWDOG	UP	731	
09/20/01	YELLOWDOG	UP	724	
09/20/01	YELLOWDOG	UP	710	
09/20/01	YELLOWDOG	UP	715	
09/20/01	YELLOWDOG	UP	717	
09/20/01	YELLOWDOG	UP	722	
09/20/01	YELLOWDOG	UP	704	
09/20/01	YELLOWDOG	UP	736	
09/20/01	YELLOWDOG	UP	737	
09/20/01	YELLOWDOG	UP	726	
09/20/01	YELLOWDOG	UP	707	
09/20/01	YELLOWDOG	UP	712	
09/20/01	YELLOWDOG	UP	739	
09/20/01	YELLOWDOG	UP	713	
09/20/01	YELLOWDOG	UP	716	
09/20/01	YELLOWDOG	UP	725	
09/20/01	YELLOWDOG	UP	728	
09/20/01	YELLOWDOG	UP	727	
09/20/01	YELLOWDOG	UP	719	
09/20/01	YELLOWDOG	UP	733	
05/31/01	COAL	LOW	5	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	1	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	3	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	6	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	4	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	2	ABOVE & BELOW BARRIER
05/31/01	COAL	LOW	15	ABOVE BARRIER
05/31/01	COAL	LOW	10	ABOVE BARRIER

05/31/01	151	2	COAL	LOW	3	WCT	16	16-01	50	48	N	Y	Y	N
05/31/01	151	2	COAL	LOW	3	WCT	12	12-01	52	50	N	Y	Y	N
05/31/01	151	2	COAL	LOW	3	WCT	13	13-01	53	51	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	21	21-01	54	52	N	Y	Y	N
05/31/01	151	2	COAL	LOW	3	WCT	14	14-01	55	53	N	Y	Y	N
05/31/01	151	2	COAL	LOW	2	WCT	8	8-01	57	55	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	19	19-01	57	54	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	17	17-01	58	56	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	22	22-01	61	58	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	20	20-01	63	60	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	23	23-01	63	61	N	Y	Y	N
05/31/01	151	2	COAL	LOW	4	WCT	18	18-01	66	63	N	Y	Y	N
05/31/01	151	2	COAL	LOW	2	WCT	9	9-01	74	70	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	13	01-13	85	80	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	14	01-14	118	113	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	2	WCT	6	6-01	50	48	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	3	WCT	10	10-01	57	54	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	15	15-01	57	54	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	2	WCT	7	7-01	59	56	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	14	14-01	61	58	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	3	WCT	9	9-01	65	62	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	16	16-01	68	64	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	13	13-01	72	69	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	12	12-01	83	78	N	Y	Y	N
05/12/01	132	2	BROWN	LOW	4	WCT	11	11-01	129	121	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	6	WCT	22	22-01	44	42	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	5	WCT	20	20-01	50	48	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	1	WCT	41	41-01	53	50	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	5	WCT	17	17-01	60	57	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	8	WCT	29	29-01	60	57	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	1	WCT	39	39-01	61	58	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	8	WCT	28	28-01	62	58	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	9	WCT	38	38-01	63	60	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	8	WCT	27	27-01	65	60	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	9	WCT	34	34-01	67	63	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	1	WCT	40	40-01	67	63	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	6	WCT	23	23-01	68	64	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	8	WCT	30	30-01	68	64	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	7	WCT	24	24-01	69	65	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	7	WCT	25	25-01	70	66	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	7	WCT	26	26-01	72	68	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	5	WCT	18	18-01	73	69	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	5	WCT	19	19-01	73	68	N	Y	Y	N
05/13/01	133	2	BROWN	LOW	8	WCT	31	31-01	74	69	N	Y	Y	N
07/18/01	199	2	BROWN	LOW	1	WCT	402		32	31	Y	Y	Y	N
07/18/01	199	2	BROWN	LOW	2	WCT	426		34	33	Y	Y	Y	N
07/18/01	199	2	BROWN	LOW	2	WCT	425		36	35	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	2	WCT	521	521-01	33	32	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	2	WCT	545	545-01	35	34	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	2	WCT	544	544-01	37	36	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	2	WCT	546	546-01	39	38	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	1	WCT	501	501-01	45	44	Y	Y	Y	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	523	523-01	45	44	Y	Y	Y	N
08/14/01	226	2	BROWN	LOW	1	WCT	502	502-01	50	48	Y	Y	Y	UNK
08/14/01	226	2	BROWN	LOW	2	WCT	522	522-01	51	49	Y	Y	Y	N
09/18/01	261	2	BROWN	LOW	3	WCT	735	735-01	44	42	Y	Y	Y	N
09/18/01	261	2	BROWN	LOW	1	WCT	701	701-01	50	48	Y	Y	Y	N
09/18/01	261	2	BROWN	LOW	3	WCT	733	733-01	53	50	Y	Y	Y	N
09/18/01	261	2	BROWN	LOW	3	WCT	734	734-01	58	55	Y	Y	Y	N
09/18/01	261	2	BROWN	LOW	3	WCT	732	732-01	68	64	N	Y	Y	N
10/13/01	286	2	BROWN	LOW	2	WCT	877	877-01	45	44	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	838	838-01	47	45	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	859	859-01	48	47	Y	Y	Y	UNK

05/31/01	COAL	LOW	16	ABOVE BARRIER
05/31/01	COAL	LOW	12	ABOVE BARRIER
05/31/01	COAL	LOW	13	ABOVE BARRIER
05/31/01	COAL	LOW	21	ABOVE BARRIER
05/31/01	COAL	LOW	14	ABOVE BARRIER
05/31/01	COAL	LOW	8	ABOVE BARRIER
05/31/01	COAL	LOW	19	ABOVE BARRIER
05/31/01	COAL	LOW	17	ABOVE BARRIER
05/31/01	COAL	LOW	22	ABOVE BARRIER
05/31/01	COAL	LOW	20	ABOVE BARRIER
05/31/01	COAL	LOW	23	ABOVE BARRIER
05/31/01	COAL	LOW	18	ABOVE BARRIER
05/31/01	COAL	LOW	9	ABOVE BARRIER
04/16/01	CEDAR	LOW	13	STRONGLY RAINBOW TRAITS
04/16/01	CEDAR	LOW	14	STRONGLY RAINBOW TRAITS
05/12/01	BROWN	LOW	6	
05/12/01	BROWN	LOW	10	
05/12/01	BROWN	LOW	15	
05/12/01	BROWN	LOW	7	
05/12/01	BROWN	LOW	14	
05/12/01	BROWN	LOW	9	
05/12/01	BROWN	LOW	16	
05/12/01	BROWN	LOW	13	
05/12/01	BROWN	LOW	12	
05/12/01	BROWN	LOW	11	
05/13/01	BROWN	LOW	22	
05/13/01	BROWN	LOW	20	
05/13/01	BROWN	LOW	41	
05/13/01	BROWN	LOW	17	
05/13/01	BROWN	LOW	29	
05/13/01	BROWN	LOW	39	
05/13/01	BROWN	LOW	28	
05/13/01	BROWN	LOW	38	
05/13/01	BROWN	LOW	27	
05/13/01	BROWN	LOW	34	
05/13/01	BROWN	LOW	40	
05/13/01	BROWN	LOW	23	
05/13/01	BROWN	LOW	30	
05/13/01	BROWN	LOW	24	
05/13/01	BROWN	LOW	25	
05/13/01	BROWN	LOW	26	
05/13/01	BROWN	LOW	18	
05/13/01	BROWN	LOW	19	
05/13/01	BROWN	LOW	31	
07/18/01	BROWN	LOW	402	
07/18/01	BROWN	LOW	426	
07/18/01	BROWN	LOW	425	
08/14/01	BROWN	LOW	521	
08/14/01	BROWN	LOW	545	
08/14/01	BROWN	LOW	544	
08/14/01	BROWN	LOW	546	
08/14/01	BROWN	LOW	501	
08/14/01	BROWN	LOW	523	
08/14/01	BROWN	LOW	502	
08/14/01	BROWN	LOW	522	
09/18/01	BROWN	LOW	735	
09/18/01	BROWN	LOW	701	
09/18/01	BROWN	LOW	733	
09/18/01	BROWN	LOW	734	
09/18/01	BROWN	LOW	732	
10/13/01	BROWN	LOW	877	
10/13/01	BROWN	LOW	838	
10/13/01	BROWN	LOW	859	

10/13/01	286	2	BROWN	LOW	2	WCT	866	866-01	48	46	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	881	881-01	50	49	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	885	885-01	51	49	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	841	841-01	52	49	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	887	887-01	52	50	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	811	811-01	53	50	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	868	868-01	53	51	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	818	818-01	54	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	830	830-01	54	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	840	840-01	54	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	878	878-01	54	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	839	839-01	55	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	858	858-01	55	53	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	873	873-01	57	55	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	801	801-01	58	54	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	823	823-01	58	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	824	824-01	58	55	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	869	869-01	58	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	819	819-01	59	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	831	831-01	59	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	855	855-01	59	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	884	884-01	59	56	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	837	837-01	60	52	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	876	876-01	60	58	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	802	802-01	61	57	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	833	833-01	61	58	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	861	861-01	61	58	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	825	825-01	62	59	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	832	832-01	62	59	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	834	834-01	62	59	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	870	870-01	62	59	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	888	888-01	62	59	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	836	836-01	63	60	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	883	883-01	63	60	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	835	835-01	64	61	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	1	WCT	822	822-01	65	62	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	865	865-01	65	62	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	880	880-01	65	62	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	875	875-01	66	63	Y	Y	Y	UNK
10/13/01	286	2	BROWN	LOW	2	WCT	854	854-01	70	68	Y	Y	Y	UNK
08/14/01	226	2	BROWN	MID	1	WCT	547	547-01	30	29	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	549	549-01	32	31	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	529	529-01	33	32	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	548	548-01	36	35	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	513	513-01	43	42	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	550	550-01	45	44	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	512	512-01	107	101	N	Y	Y	N
08/13/01	225	2	BROWN	UP	4	WCT	545		28		Y	Y	Y	N
08/13/01	225	2	BROWN	UP	4	WCT	544	544-01	110	104	N	Y	Y	N
08/14/01	226	2	BROWN	UP	3	WCT	523	523-01	31	30	Y	Y	Y	UNK
08/14/01	226	2	BROWN	UP	3	WCT	522	522-01	34	33	Y	Y	Y	UNK
08/02/01	214	4	CABIN	LOW	1	WCT	511	11-01	33	32	Y	Y	Y	N
08/02/01	214	4	CABIN	LOW	1	WCT	502	2-01	36	35	Y	Y	Y	N
08/02/01	214	4	CABIN	LOW	1	WCT	510	10-01	42	41	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	8	8-01	27	26	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	56	56-01	28		Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	53	53-01	29	28	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	6	6-01	30	29	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	52	52-01	31	30	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	55	55-01	31	30	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	7	7-01	32	31	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	27	27-01	32	31	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	54	54-01	32	31	Y	Y	Y	N

07/27/01	208	6	CASCADE	LOW	1	WCT	9	9-01	33	32	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	51	51-01	33	32	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	36	36-01	35	34	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	58	58-01	35	34	Y	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	2	2-01	90	86	N	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	5	5-01	91	87	N	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	3	3-01	94	89	N	Y	Y	N
07/27/01	208	6	CASCADE	LOW	2	WCT	20	20-01	94	89	N	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	1	1-01	97	91	N	Y	Y	N
07/27/01	208	6	CASCADE	LOW	1	WCT	4	4-01	115	108	N	Y	Y	N
07/27/01	208	6	CASCADE	MID	2	WCT	9	9-01	21		Y	N	Y	N
07/27/01	208	6	CASCADE	MID	1	WCT	1	1-01	28	27	Y	Y	Y	N
07/27/01	208	6	CASCADE	MID	1	WCT	2	2-01	29	28	Y	Y	Y	N
07/27/01	208	6	CASCADE	MID	1	WCT	4	4-01	83	80	N	Y	Y	N
07/27/01	208	6	CASCADE	MID	1	WCT	3	3-01	90	86	N	Y	Y	N
07/27/01	208	6	CASCADE	MID	1	WCT	5	5-01	92	86	N	Y	Y	N
07/30/01	211	6	CASCADE	UP	2	WCT	6	6-01	21		Y	Y	Y	N
07/30/01	211	6	CASCADE	UP	2	WCT	12	12-01	26		Y	Y	Y	N
07/30/01	211	6	CASCADE	UP	2	WCT	11	11-01	28		Y	Y	Y	N
07/30/01	211	6	CASCADE	UP	1	WCT	4	4-01	67	64	N	Y	Y	N
07/30/01	211	6	CASCADE	UP	1	WCT	1	1-01	79	75	N	Y	Y	N
07/30/01	211	6	CASCADE	UP	1	WCT	5	5-01	94	88	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	40	01-40	48	45	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	15	01-15	52	50	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	27	01-27	52	49	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	28	01-28	57	53	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	12	01-12	58	56	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	20	01-20	58	54	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	37	01-37	58	55	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	38	01-38	58	56	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	8	01-8	60	57	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	33	01-33	60	57	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	24	01-24	61	58	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	39	01-39	61	58	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	2	01-2	62	59	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	5	01-5	62	59	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	25	01-25	65	62	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	32	01-32	66	62	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	7	01-7	69	65	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	16	01-16	70	66	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	9	01-9	71	67	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	35	01-35	71	66	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	19	01-19	73	70	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	31	01-31	75	71	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	3	01-3	76	72	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	6	0106	76	71	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	23	01-23	76	72	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	36	01-36	78	74	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	34	01-34	79	74	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	10	01-10	80	76	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	1	01-1	81	76	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	4	01-4	81	76	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	21	01-21	82	77	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	22	01-22	85	79	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	26	01-26	85	80	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	18	01-18	86	81	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	30	01-30	87	82	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	17	01-17	94	88	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	29	01-29	101	95	N	Y	Y	N
04/16/01	106	1	CEDAR	LOW	1	WCT	11	01-11	106	101	N	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	134		23		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	132		26		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	1	WCT	102		27		Y	Y	Y	N

06/19/01	170	1	CEDAR	LOW	1	WCT	103		27		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	1	WCT	110		27		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	133		27		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	1	WCT	109		28		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	128		29		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	124		30		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	125		30		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	129		30		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	130		30		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	123		31		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	127		31		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	126		32		Y	Y	Y	N
06/19/01	170	1	CEDAR	LOW	1	WCT	101	101-01	106	94	N	Y	Y	N
06/19/01	170	1	CEDAR	LOW	2	WCT	131	131-01	108	103	N	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	403		34	33	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	414		34	33	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	401		37	36	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	402		37	36	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	410		37	36	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	435		37	36	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	415		39	38	Y	Y	Y	N
07/17/01	198	1	CEDAR	LOW	1	WCT	404		40	39	Y	Y	Y	N
08/10/01	222	1	CEDAR	LOW	1	WCT	504	504-01	42	41	Y	Y	Y	N
08/10/01	222	1	CEDAR	LOW	1	WCT	505	505-01	42	41	Y	Y	Y	N
08/10/01	222	1	CEDAR	LOW	1	WCT	503	503-01	43	42	Y	Y	Y	N
08/10/01	222	1	CEDAR	LOW	1	WCT	502	502-01	45	44	Y	Y	Y	N
08/10/01	222	1	CEDAR	LOW	1	WCT	501	501-01	52	51	Y	Y	Y	N
09/17/01	260	1	CEDAR	LOW	2	WCT	729	729-01	57	55	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	513	513-01	29		Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	512	512-01	34	33	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	505	505-01	35	34	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	552	552-01	35	34	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	511	511-01	36	35	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	517	517-01	36	35	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	556	556-01	36	35	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	516	516-01	37	36	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	546	546-01	37	36	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	548	548-01	37	36	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	551	551-01	37	36	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	509	509-01	38	37	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	555	555-01	38	37	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	504	504-01	39	38	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	547	547-01	40	39	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	574	574-01	40	39	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	515	515-01	41	39	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	508	508-01	42	41	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	554	554-01	42	41	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	545	545-01	45	44	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	553	553-01	45	44	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	550	550-01	46	45	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	510	510-01	47	46	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	549	549-01	49	48	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	514	514-01	51	50	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	507	507-01	53	51	Y	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	503	503-01	80	76	N	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	506	506-01	92	87	N	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	502	502-01	93	87	N	Y	Y	N
08/10/01	222	1	CEDAR	MID	1	WCT	501	501-01	113	106	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	31	31-01	47	45	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	34	34-01	48	46	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	25	25-01	49	47	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	36	36-01	49	47	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	32	32-01	54	51	N	Y	Y	N

05/11/01	131	1	CEDAR	UP	1	WCT	35	35-01	54	52	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	28	28-01	57	54	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	30	30-01	60	58	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	26	26-01	61	57	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	33	33-01	61	58	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	4	4-01	62	59	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	27	27-01	63	60	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	2	2-01	65	61	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	6	6-01	68	65	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	29	29-01	68	64	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	7	7-01	69	66	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	23	23-01	69	65	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	2	WCT	64	64-01	75	71	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	22	22-01	82	78	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	8	8-01	84	79	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	24	24-01	86	80	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	21	21-01	89	84	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	3	3-01	90	84	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	1	1-01	93	86	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	2	WCT	37	37-01	97	91	N	Y	Y	N
05/11/01	131	1	CEDAR	UP	1	WCT	5	5-01	108	102	N	Y	Y	Y
05/11/01	131	1	CEDAR	UP	1	WCT	9	9-01	125	116	N	Y	Y	Y
07/16/01	197	1	CEDAR	UP	2	WCT	413		22		Y	Y	Y	N
07/16/01	197	1	CEDAR	UP	3	WCT	430		26		Y	Y	Y	N
07/16/01	197	1	CEDAR	UP	4	WCT	431		26		Y	N	Y	N
07/16/01	197	1	CEDAR	UP	4	WCT	432		27		Y	N	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	438		27		Y	Y	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	436		29		Y	Y	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	439		29		Y	Y	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	447		30	29	Y	Y	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	440		32	31	Y	Y	Y	N
07/17/01	198	1	CEDAR	UP	1	WCT	437		35	34	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	506	506-01	31	30	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	503	503-01	32	31	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	505	505-01	36	35	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	512	512-01	36	35	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	513	513-01	38	37	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	507	507-01	41	40	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	508	508-01	41	40	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	509	509-01	41	40	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	502	502-01	42	41	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	504	504-01	42	41	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	511	511-01	43	42	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	510	510-01	46	45	Y	Y	Y	N
08/13/01	225	1	CEDAR	UP	1	WCT	501	501-01	81	76	N	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	737	737-01	43	42	Y	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	747	747-01	48	46	Y	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	736	736-01	49	47	Y	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	739	739-01	50	48	Y	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	746	746-01	59	57	Y	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	738	738-01	86	81	N	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	748	748-01	86	81	N	Y	Y	N
09/18/01	261	1	CEDAR	UP	1	WCT	745	745-01	92	87	N	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	564	64-01	28	27	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	557	57-01	29	28	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	565	65-01	29	28	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	571	71-01	29		Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	551	51-01	30	29	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	1	WCT	508	8-01	32	31	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	566	66-01	32	31	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	556	56-01	33	32	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	1	WCT	502	2-01	34	33	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	555	55-01	34	33	Y	Y	Y	N

08/01/01	213	4	CLINTON	LOW	2	WCT	550	50-01	35	34	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	1	WCT	507	7-01	36	35	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	546	46-01	36	35	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	2	WCT	558	58-01	38	37	Y	Y	Y	N
08/01/01	213	4	CLINTON	LOW	1	WCT	529	29-01	103	96	N	Y	Y	N
06/22/01	173	3	COAL	LOW	1	WCT	102	102-01	67	63	N	Y	Y	N
06/22/01	173	3	COAL	LOW	1	WCT	103	103-01	74	70	N	Y	Y	N
06/22/01	173	3	COAL	LOW	1	WCT	101		151	142	N	Y	Y	N
07/18/01	199	2	COAL	LOW	2	WCT	415		24		Y	Y	Y	N
08/16/01	228	2	COAL	LOW	1	WCT	527	527-01	31	30	Y	Y	Y	N
08/16/01	228	2	COAL	LOW	1	WCT	525	525-01	37	36	Y	Y	Y	N
08/16/01	228	2	COAL	LOW	1	WCT	526	526-01	38	37	Y	Y	Y	N
09/19/01	262	2	COAL	LOW	2	WCT	713	713-01	52	50	Y	Y	Y	N
09/19/01	262	2	COAL	LOW	2	WCT	712	712-01	56	53	Y	Y	Y	N
05/30/01	150	2	COAL	MID	3	WCT	8	8-01	52	50	N	Y	Y	N
05/30/01	150	2	COAL	MID	3	WCT	10	10-01	54	52	N	Y	Y	N
05/30/01	150	2	COAL	MID	2	WCT	5	5-01	56	54	N	Y	Y	N
05/30/01	150	2	COAL	MID	1	WCT	1	1-01	69	66	N	Y	Y	N
05/30/01	150	2	COAL	MID	3	WCT	9	9-01	79	74	N	Y	Y	N
08/16/01	228	2	COAL	MID	4	WCT	540	540-01	26		Y	Y	Y	N
08/16/01	228	2	COAL	MID	1	WCT	501	501-01	28		Y	Y	Y	N
08/16/01	228	2	COAL	MID	4	WCT	538	538-01	38	37	Y	Y	Y	N
08/16/01	228	2	COAL	MID	4	WCT	539	539-01	39	38	Y	Y	Y	N
09/19/01	262	2	COAL	MID	2	WCT	711	711-01	39	38	Y	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	6	6-01	84	79	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	12	12-01	91	86	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	5	5-01	97	91	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	4	4-01	98	92	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	16	16-01	98	92	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	17	17-01	118	111	N	Y	Y	N
07/12/01	193	7	COPPER	MID	1	WCT	14	14-01	138	135	N	Y	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	21/D	21-01	41	40	Y	N	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	23/F	23-01	78	73	N	N	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	19/B	19-01	85	79	N	N	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	22/E	22-01	98	92	N	N	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	18/A	18-01	122	118	N	N	Y	N
08/21/01	233	7	COPPER	MID	1	WCT	20/C	20-01	128	120	N	N	Y	N
08/02/01	214	3	FLAT	LOW	1	WCT	510	10-01	28	27	Y	Y	Y	N
08/02/01	214	3	FLAT	LOW	1	WCT	507	7-01	33	32	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	3	3-01	34	33	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	16	16-01	34	33	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	22	22-01	34	33	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	15	15-01	38	37	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	2	WCT	37	37-01	38	37	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	2	WCT	55	55-01	38	37	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	2	WCT	57	57-01	40	39	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	2	2-01	41	40	Y	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	17	17-01	46	45	N	Y	Y	N
08/08/01	220	5	HALSEY	LOW	1	WCT	21	21-01	73	68	N	Y	Y	N
08/08/01	220	5	HALSEY	LOW	2	WCT	61	61-01	80	75	N	Y	Y	N
05/29/01	149	6	IRON	LOW	2	WCT	24	24-01	52	50	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	2	2-01	54	52	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	20	20-01	55	53	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	7	7-01	57	54	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	5	5-01	58	55	N	Y	Y	N
05/29/01	149	6	IRON	LOW	2	WCT	25	25-01	58	56	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	13	13-01	59	57	N	Y	Y	N
05/29/01	149	6	IRON	LOW	2	WCT	22	22-01	59	56	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	11	11-01	61	58	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	14	14-01	62	59	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	1	1-01	63	60	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	15	15-01	63	60	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	17	17-01	63	60	N	Y	Y	N

05/29/01	149	6	IRON	LOW	1	WCT	6	6-01	64	61	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	8	8-01	66	63	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	12	12-01	66	63	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	18	18-01	66	63	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	10	10-01	67	64	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	4	4-01	69	65	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	16	16-01	71	67	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	3	3-01	72	69	N	Y	Y	N
05/29/01	149	6	IRON	LOW	2	WCT	21	21-01	73	69	N	Y	Y	N
05/29/01	149	6	IRON	LOW	1	WCT	9	9-01	75	71	N	Y	Y	N
05/29/01	149	6	IRON	LOW	2	WCT	23	23-01	113	106	N	Y	Y	N
06/24/01	175	6	IRON	LOW	1	WCT	110	110-01	61	58	N	Y	Y	N
06/24/01	175	6	IRON	LOW	1	WCT	101	101-01	74	70	N	Y	Y	N
07/19/01	200	6	IRON	LOW	1	WCT	401		29	28	Y	Y	Y	N
07/19/01	200	6	IRON	LOW	1	WCT	404		29	28	Y	Y	Y	N
07/19/01	200	6	IRON	LOW	1	WCT	402		30	29	Y	Y	Y	N
07/19/01	200	6	IRON	LOW	1	WCT	403		30	29	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	574		28		Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	516		31	30	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	549		31	30	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	2	WCT	583	583-01	31	30	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	519		34	33	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	521		34	33	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	538		34	33	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	522		36	35	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	566		36	35	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	517		37	36	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	518		37	36	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	523		37	36	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	567		37	36	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	550		38	37	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	571	571-01	39	38	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	520		40	39	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	2	WCT	579	579-01	40	39	Y	Y	Y	N
08/06/01	218	6	IRON	LOW	1	WCT	551	551-01	94	89	N	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	625		28		Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	623		31	30	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	616		33	32	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	617		33	32	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	615		34	33	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	624		34	33	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	598		37	36	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	622		37	36	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	610		38	37	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	621		38	37	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	590		39	38	Y	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	620		76	71	N	Y	Y	N
08/07/01	219	6	IRON	LOW	2	WCT	614		101	95	N	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	740	740-01	47	45	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	755	755-01	49	47	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	703	703-01	51	49	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	704	704-01	51	49	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	705	705-01	51	49	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	743	743-01	51	49	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	739	739-01	53	50	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	741	741-01	53	50	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	756	756-01	53	51	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	706	706-01	55	53	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	746	746-01	56	54	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	744	744-01	59	56	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	742	742-01	63	60	Y	Y	Y	N
09/20/01	263	6	IRON	LOW	2	WCT	745	745-01	82	77	N	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	707	707-01	84	79	N	Y	Y	N

09/20/01	263	6	IRON	LOW	2	WCT	768	768-01	87	82	N	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	701	701-01	92	86	N	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	709	709-01	97	92	N	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	702	702-01	100	95	N	Y	Y	N
09/20/01	263	6	IRON	LOW	1	WCT	708	708-01	111	104	N	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	543	543-01	25		Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	510	510-01	29		Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	503	503-01	30		Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	512	512-01	31	30	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	504	504-01	32	31	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	505	505-01	32	31	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	509	509-01	34	33	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	506	506-01	35	34	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	507	507-01	35	34	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	544	544-01	36	35	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	511	511-01	38	37	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	508	508-01	39	38	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	502	502-01	40	39	Y	Y	Y	N
08/07/01	219	6	IRON	MID	1	WCT	501	501-01	108	102	N	Y	Y	N
05/28/01	148	6	IRON	UP	3	WCT	28	28-01	45	44	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	4	4-01	46	44	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	8	8-01	46	44	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	11	11-01	47	45	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	6	6-01	48	46	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	23	23-01	49	47	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	19	19-01	51	49	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	9	9-01	52	50	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	21	21-01	52	50	N	Y	Y	N
05/28/01	148	6	IRON	UP	3	WCT	26	26-01	52	50	N	Y	Y	N
05/28/01	148	6	IRON	UP	3	WCT	27	27-01	52	50	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	7	7-01	53	51	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	16	16-01	53	51	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	20	20-01	53	51	N	Y	Y	N
05/28/01	148	6	IRON	UP	3	WCT	25	25-01	55	53	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	5	5-01	57	55	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	12	12-01	57	55	N	Y	Y	N
05/28/01	148	6	IRON	UP	3	WCT	24	24-01	57	54	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	1	1-01	58	56	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	10	10-01	58	55	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	22	22-01	58	55	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	17	17-01	59	56	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	3	3-01	60	58	N	Y	Y	N
05/28/01	148	6	IRON	UP	1	WCT	2	2-01	61	58	N	Y	Y	N
05/28/01	148	6	IRON	UP	2	WCT	18	18-01	68	65	N	Y	Y	N
06/24/01	175	6	IRON	UP	1	WCT	111	111-01	62	59	N	Y	Y	N
07/19/01	200	6	IRON	UP	2	WCT	424		25		Y	Y	Y	N
07/19/01	200	6	IRON	UP	1	WCT	401		26		Y	Y	Y	N
07/19/01	200	6	IRON	UP	2	WCT	425		26		Y	Y	Y	N
07/19/01	200	6	IRON	UP	2	WCT	441		26		Y	Y	Y	N
08/07/01	219	6	IRON	UP	1	WCT	501		29	28	Y	Y	Y	N
08/07/01	219	6	IRON	UP	1	WCT	503		29		Y	Y	Y	N
08/07/01	219	6	IRON	UP	2	WCT	523		30	29	Y	Y	Y	N
08/07/01	219	6	IRON	UP	2	WCT	524		30	29	Y	Y	Y	N
08/07/01	219	6	IRON	UP	1	WCT	502		31	30	Y	Y	Y	N
08/07/01	219	6	IRON	UP	1	WCT	504		31	30	Y	Y	Y	N
08/07/01	219	6	IRON	UP	2	WCT	525		31	30	Y	Y	Y	N
09/21/01	264	6	IRON	UP	3	WCT	773	773-01	46	45	Y	Y	Y	N
09/21/01	264	6	IRON	UP	1	WCT	701	701-01	56	54	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	37	01-37	44	43	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	36	01-36	50	48	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	31	01-31	55	53	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	34	01-34	79	75	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	33	01-33	80	75	N	Y	Y	N

04/15/01	105	1	LONESOME	LOW	1	WCT	18	01-18	82	78	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	32	01-32	83	79	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	35	01-35	87	82	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	7	01-7	89	85	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	10	01-10	89	85	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	14	01-14	89	84	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	9	01-9	92	86	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	16	01-16	94	88	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	28	01-28	94	88	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	20	01-20	95	89	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	13	01-13	96	90	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	21	01-21	98	93	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	25	01-25	98	93	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	15	01-15	99	95	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	23	01-23	99	94	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	29	01-29	99	94	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	12	01-12	102	96	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	24	01-24	102	96	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	27	01-27	103	97	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	30	01-30	104	99	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	22	01-22	105	99	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	11	01-11	106	99	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	17	01-17	107	100	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	8	01-8	108	102	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	26	01-26	113	106	N	Y	Y	N
04/15/01	105	1	LONESOME	LOW	1	WCT	19	01-19	117	110	N	Y	Y	N
06/20/01	171	1	LONESOME	LOW	2	WCT	108	108-01	26		Y	Y	Y	N
06/20/01	171	1	LONESOME	LOW	3	WCT	116	116-01	26		Y	Y	Y	N
06/20/01	171	1	LONESOME	LOW	3	WCT	122	122-01	26		Y	Y	Y	N
06/20/01	171	1	LONESOME	LOW	1	WCT	101	101-01	27		Y	Y	Y	N
06/20/01	171	1	LONESOME	LOW	1	WCT	102	102-01	28		Y	Y	Y	N
07/16/01	197	1	LONESOME	LOW	1	WCT	404		31	30	Y	Y	Y	N
07/16/01	197	1	LONESOME	LOW	1	WCT	403		33	32	Y	Y	Y	N
07/16/01	197	1	LONESOME	LOW	2	WCT	433		37	36	N	Y	Y	N
07/16/01	197	1	LONESOME	LOW	1	WCT	402		39	38	N	Y	Y	N
07/16/01	197	1	LONESOME	LOW	1	WCT	401		41	40	N	Y	Y	N
07/16/01	197	1	LONESOME	LOW	2	WCT	434		112	107	N	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	505	505-01	33	32	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	534	534-01	33	32	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	535	535-01	33	32	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	532	532-01	34	33	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	502	502-01	35	34	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	503	503-01	35	34	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	530	530-01	35	34	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	501	501-01	36	35	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	504	504-01	36	35	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	531	531-01	36	35	Y	Y	Y	N
08/09/01	221	1	LONESOME	LOW	1	WCT	533	533-01	38	37	Y	Y	Y	N
09/18/01	261	1	LONESOME	LOW	3	WCT	769	769-01	33	32	Y	Y	Y	N
09/18/01	261	1	LONESOME	LOW	2	WCT	746	746-01	34	33	Y	Y	Y	N
09/18/01	261	1	LONESOME	LOW	2	WCT	732	732-01	37	36	Y	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	25	01-25	38		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	36	01-36	39		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	18	01-18	43		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	29	01-29	43		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	35	01-35	43		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	21	01-21	45		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	22	01-22	45		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	43	01-43	45		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	38	01-38	46		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	44	01-44	47		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	40	01-40	48		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	28	01-28	49		N	Y	Y	N

04/14/01	104	1	LONESOME	UP	1	WCT	39	01-39	51		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	23	01-23	52		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	30	01-30	52		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	31	01-31	52		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	41	01-41	52		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	17	01-17	53		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	26	01-26	53		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	13	01-13	56		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	16	01-16	56		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	10	01-10	57		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	11	01-11	58		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	42	01-42	58		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	27	01-27	60		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	12	01-12	61		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	33	01-33	64		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	15	01-15	65		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	37	01-37	65		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	34	01-34	74		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	32	01-32	81		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	24		82		N	Y	Y	N
04/14/01	104	1	LONESOME	UP	1	WCT	14	01-14	88		N	Y	Y	N
07/17/01	198	1	LONESOME	UP	1	WCT	401		30	29	Y	Y	Y	N
07/17/01	198	1	LONESOME	UP	2	WCT	434		30	29	Y	Y	Y	N
07/17/01	198	1	LONESOME	UP	1	WCT	402		32	31	Y	Y	Y	N
07/17/01	198	1	LONESOME	UP	2	WCT	433		35	34	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	526	526-01	31	30	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	508	508-01	38	37	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	501	501-01	40	39	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	505	505-01	40	39	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	2	WCT	546	546-01	42	41	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	502	502-01	45	44	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	2	WCT	545	545-01	48	47	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	507	507-01	76	72	N	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	506	506-01	85	80	N	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	763	763-01	36	35	Y	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	764	764-01	39	38	Y	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	765	765-01	42	41	Y	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	768	768-01	43	41	Y	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	766	766-01	44	43	Y	Y	Y	N
09/17/01	260	1	LONESOME	UP	2	WCT	767	767-01	47	46	Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	4	4-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	6	6-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	8	8-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	10	10-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	11	11-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	23	23-01	28		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	2	2-01	29		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	5	5-01	29		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	9	9-01	30		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	7	7-01	31		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	12	12-01	31		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	1	1-01	32		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	3	3-01	32		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	13	13-01	32		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	14	14-01	32		Y	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	45	45-01	96	91	N	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	17	17-01	103	98	N	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	16	16-01	105	99	N	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	46	46-01	107	102	N	Y	Y	N
07/13/01	194	1	MARIE	LOW	1	WCT	15	15-01	108	102	N	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	7	7-01	27		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	1	1-01	29		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	2	2-01	29		Y	Y	Y	N

07/11/01	192	1	MARIE	MID	1	WCT	4	4-01	29		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	10	10-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	2	WCT	38	38-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	2	WCT	39	39-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	6	6-01	32		Y	Y	Y	N
07/11/01	192	1	MARIE	MID	1	WCT	24	24-01	73	69	N	Y	Y	N
07/11/01	192	1	MARIE	MID	3	WCT	43	43-01	80	76	N	Y	Y	N
07/11/01	192	1	MARIE	MID	3	WCT	46	46-01	83	79	N	Y	Y	N
07/11/01	192	1	MARIE	MID	3	WCT	44	44-01	94	89	N	Y	Y	N
07/11/01	192	1	MARIE	MID	3	WCT	47	47-01	134	127	N	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	9	9-01	26		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	10	10-01	26		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	28	28-01	27		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	2	WCT	31	31-01	27		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	2	2-01	29		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	3	3-01	29		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	18	18-01	29		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	6	6-01	30		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	2	WCT	32	32-01	30		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	4	4-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	7	7-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	2	WCT	29	29-01	31		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	5	5-01	32		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	8	8-01	32		Y	Y	Y	N
07/11/01	192	1	MARIE	UP	1	WCT	1	1-01	85	80	N	Y	Y	N
07/11/01	192	1	MARIE	UP	2	WCT	30	30-01	131	124	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	15	15-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	16	16-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	17	17-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	18	18-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	19	19-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	27	27-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	38	38-01	23		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	3	WCT	20	20-01	24		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	23	23-01	24		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	26	26-01	24		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	28	28-01	24		Y	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	50	50-01	72	68	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	6	WCT	57	57-01	72	68	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	6	6-01	80	75	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	48	48-01	80	75	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	12	12-01	87	82	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	5	WCT	49	49-01	89	84	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	13	13-01	111	105	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	1	WCT	7	7-01	120	112	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	2	WCT	14	14-01	121	114	N	Y	Y	N
07/26/01	207	6	SKOOKUM	LOW	4	WCT	21	21-01	205	195	N	Y	Y	N
08/15/01	227	6	TOM_LAVIN	LOW	1	WCT	501		34	33	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	541		34	33	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	540		36	35	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	553		37	36	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	3	WCT	539		39	38	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	2	WCT	516		41	40	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	LOW	4	WCT	555		84	80	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	MID	4	WCT	544	44-01	23		Y	Y	Y	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	528	28-01	35	34	Y	Y	Y	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	530	30-01	35	34	Y	Y	Y	N
08/15/01	227	6	TOM_LAVIN	MID	3	WCT	529	29-01	39	38	Y	Y	Y	N
08/15/01	227	6	TOM_LAVIN	MID	2	WCT	514	14-01	40	39	Y	Y	Y	N
08/15/01	227	6	TOM_LAVIN	MID	1	WCT	501	1-01	86	80	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	9	9-01	39	38	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	1	1-01	42	41	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	8	8-01	43	42	N	Y	Y	N

06/03/01	154	6	TOM_LAVIN	UP	2	WCT	22	22-01	44	43	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	13	13-01	45	44	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	7	7-01	46	44	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	35	35-01	48	46	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	4	4-01	49	47	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	17	17-01	49	47	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	19	19-01	49	47	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	15	15-01	50	49	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	18	18-01	51	49	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	6	6-01	52	50	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	5	5-01	53	50	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	16	16-01	53	51	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	12	12-01	54	52	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	14	14-01	54	51	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	3	3-01	56	53	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	20	20-01	57	55	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	2	2-01	58	55	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	10	10-01	62	59	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	3	WCT	36	36-01	68	65	N	Y	Y	N
06/03/01	154	6	TOM_LAVIN	UP	1	WCT	11	11-01	74	70	N	Y	Y	N
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	563		30	29	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	502		31	30	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	503		32	31	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	531		32	31	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	507		33	32	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	554		33	32	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	556		33	32	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	504		34	33	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	505		35	34	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	506		35	34	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	533		35	34	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	532		37	36	Y	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	530		58	55	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	529		65	62	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	553		65	62	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	550		69	65	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	561		70	67	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	525		71	68	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	549		71	68	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	523		72	68	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	527		73	69	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	520		75	71	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	521		76	72	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	524		76	71	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	528		76	72	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	501		79	75	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	551		79	76	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	2	WCT	552		79	75	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	522		80	75	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	526		80	76	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	1	WCT	519		81	77	N	Y	Y	UNK
08/15/01	227	6	TOM_LAVIN	UP	3	WCT	562		83	78	N	Y	Y	UNK
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	734	734-01	39	38	Y	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	702	702-01	44	43	Y	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	2	WCT	735	735-01	46	45	Y	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	703	703-01	49	48	Y	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	701	701-01	50	48	Y	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	706	706-01	59	56	N	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	709	709-01	73	69	N	Y	Y	N
09/21/01	264	6	TOM_LAVIN	UP	1	WCT	708	708-01	87	83	N	Y	Y	N
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	840	840-01	32	32	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	857	857-01	33	33	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	801	801-01	35	34	Y	Y	Y	UNK

10/13/01	286	6	TOM_LAVIN	UP	2	WCT	864	864-01	36	35	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	858	858-01	38	37	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	866	866-01	38	37	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	802	802-01	39	38	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	830	830-01	39	38	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	831	831-01	39	38	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	862	862-01	39	38	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	865	865-01	39	38	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	804	804-01	40	39	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	805	805-01	40	39	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	824	824-01	40	39	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	826	826-01	40	39	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	863	863-01	40	39	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	821	821-01	41	40	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	861	861-01	42	41	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	833	833-01	43	42	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	812	812-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	819	819-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	828	828-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	829	829-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	854	854-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	868	868-01	44	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	818	818-01	45	43	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	827	827-01	45	44	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	851	851-01	45	44	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	855	855-01	45	44	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	860	860-01	45	44	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	823	823-01	46	45	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	859	859-01	46	45	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	825	825-01	47	46	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	852	852-01	47	45	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	807	807-01	48	46	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	856	856-01	48	46	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	850	850-01	49	47	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	822	822-01	50	49	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	867	867-01	50	48	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	817	817-01	52	51	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	1	WCT	820	820-01	54	53	Y	Y	Y	UNK
10/13/01	286	6	TOM_LAVIN	UP	2	WCT	847	847-01	54	52	Y	Y	Y	UNK
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	528	28-01	36	35	Y	Y	Y	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	511	11-01	38	37	Y	Y	Y	N
07/30/01	211	3	YELLOWDOG	LOW	2	WCT	552	52-01	42	41	Y	Y	Y	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	506	6-01	45	44	Y	Y	Y	N
07/30/01	211	3	YELLOWDOG	LOW	1	WCT	533	33-01	46	45	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	523	523-01	26		Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	535	535-01	31	30	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	536	536-01	32	31	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	524	524-01	34	33	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	502	502-01	35	34	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	504	504-01	35	34	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	501	501-01	36	35	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	505	505-01	36	35	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	1	WCT	506	506-01	37	36	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	522	522-01	37	36	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	548	548-01	40	39	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	551	551-01	44	43	Y	Y	Y	N
08/17/01	229	3	YELLOWDOG	MID	2	WCT	525	525-01	48	47	Y	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	2	WCT	16	16-01	46	45	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	4	WCT	11	11-01	52	50	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	6	WCT	3	3-01	53	51	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	5	WCT	9	9-01	53	50	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	3	WCT	15	15-01	54	51	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	3	WCT	14	14-01	56	53	N	Y	Y	N

06/01/01	152	3	YELLOWDOG	UP	1	WCT	18	18-01	59	56	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	6	WCT	5	5-01	60	57	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	4	WCT	12	12-01	61	58	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	2	WCT	17	17-01	62	59	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	6	WCT	1	1-01	80	75	N	Y	Y	N
06/01/01	152	3	YELLOWDOG	UP	6	WCT	2	2-01	103	97	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	31	31-01	44	43	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	37	37-01	46	44	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	11	WCT	47	47-01	46	44	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	9	WCT	35	35-01	48	46	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	51	51-01	49	47	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	53	53-01	49	47	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	54	54-01	49	46	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	13	WCT	56	56-01	50	48	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	55	55-01	51	49	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	24	24-01	55	52	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	11	WCT	48	48-01	55	52	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	12	WCT	52	52-01	57	54	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	9	WCT	34	34-01	59	57	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	9	WCT	36	36-01	62	59	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	19	19-01	76	72	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	8	WCT	25	25-01	91	85	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	10	WCT	38	38-01	91	86	N	Y	Y	N
06/02/01	153	3	YELLOWDOG	UP	7	WCT	20	20-01	95	88	N	Y	Y	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	111	111-01	53	51	N	Y	Y	N
08/16/01	228	3	YELLOWDOG	UP	2	WCT	528	528-01	60	57	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	508	508-01	72	69	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	516	516-01	72	67	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	525	525-01	74	70	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	511	511-01	76	72	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	509	509-01	77	74	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	513	513-01	77	73	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	512	512-01	78	73	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	523	523-01	79	74	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	515	515-01	80	76	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	514	514-01	83	78	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	1	WCT	510	510-01	84	79	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	526	526-01	86	82	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	524	524-01	88	83	N	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	2	WCT	527	527-01	90	84	N	Y	Y	UNK
09/20/01	263	3	YELLOWDOG	UP	4	WCT	730	730-01	44	43	Y	Y	Y	N
08/14/01	226	2	BROWN	MID	1	WCT	551	551-01	23		Y	Y	Y	N
08/03/01	215	4	CABIN	LOW	2	WCT	518	518-01	36	35	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	503	503-01	32	31	Y	Y	Y	N
08/09/01	221	1	LONESOME	UP	1	WCT	504	504-01	33	32	Y	Y	Y	N
06/23/01	174	3	YELLOWDOG	UP	2	WCT	112	112-01	53	51	N	Y	Y	N
08/16/01	228	3	YELLOWDOG	UP	4	WCT	556	556-01	24		Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	535	535-01	30	29	Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	531	531-01	31	30	Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	532	532-01	31	30	Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	534	534-01	31	30	Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	533	533-01	32	31	Y	Y	Y	UNK
08/16/01	228	3	YELLOWDOG	UP	3	WCT	530	530-01	34	33	Y	Y	Y	UNK

ScalePat00_02.xls: METADAT01

DATE	COLLECTION DATE
JULDATE	DAY OF THE YEAR
AREA	1=WOLF LODGE TRIBS, 2=LOWER NFKCDA TRIBS, 3= MID NFKCDA TRIBS, 4=SHOSHONE CREEK TRIBS,
	5=TEEPEE CREEK TRIBS, 6=LITTLE NORTH FK TRIBS
STREAM	STREAM NAME
SITE	LOW, MID, UP RELATIVE TO OTHER SITES WITHIN STREAM
BATCH#	FISH COLLECTED IN BATCHES, 1=MOST DOWNSTREAM BATCH, HIGHEST NUMBER = MOST UPSTREAM BATCH
SPECIES	SPECIES ID OF SAMPLE- WCT = WESTSLOPE CUTTHROAT TROUT, RBT = RAINBOW TROUT
FISH#	UNIQUE NUMBER GIVEN TO EACH FISH, UNIQUE ONLY WITHIN SITE/STREAM/COLLECTION DATE
OTO#	USUALLY SAME AS FISH NUMBER
TOTLEN	TOTAL LENGTH IN MM
FKLEN	FORK LENGTH IN MM
YOY	Y=YES, N=NO, BASED ON LENGTH FREQUENCY HISTOGRAMS
WCT	Y=YES, N=NO, WHETHER OR NOT ALL WCT OBSERVED WERE COLLECTED (SOME COLLECTIONS TARGETED YOY)
MORT	WAS INDIVIDUAL COLLECTED AS A MORTALITY?
MILT	WAS MILT OBSERVED? YES/NO/NOT CHECKED (UNK=UNKNOWN). ONLY FISH GTE 70MM CHECKED
NOTES	

DATE	AREA	STREAM	SITE	BAT	SPS	FISH	OTO	TISS	TLEN	FLEN	YOY	ASPS	AWCT	MORT	BAG	SCALES	MILT
08/31/00	2	BROWN	3-B		TFL						N	N	N	N		N	UNK
08/31/00	2	BROWN	3-B		TFA						N	N	N	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	123			96	91	N	Y	Y	Y	123	Y	UNK
08/31/00	2	BROWN	3-B		WCT	149			94		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	203			97	90	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	61			102	96	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	60			103	96	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	156			105	99	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	12			111	102	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	76			113	107	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	90			123	114	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	91			171	161	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	3-B		COT	121			10		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	66			16		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	67			16		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	51			17		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	150			17		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	49			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	50			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	122			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	124			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	151			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	173			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	202			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	84			19		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	174			19		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	135			35		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	196			35		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	44			36		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	47			36		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	97			36		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	119			36		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	6			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	17			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	52			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	120			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	134			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	77			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	82			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	148			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	171			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	198			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	42			39		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	111			39		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	112			39		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	169			39		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	9			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	37			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	46			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	48			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	117			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	127			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	140			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	192			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	30			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	55			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	83			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	107			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	132			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	141			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	199			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	3			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	10			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	15			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	39			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	53			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	54			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	96			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	1			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	4			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	33			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	41			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	45			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	59			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	81			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	110			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	172			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	193			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	200			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	201			43		N	Y	N	N		N	UNK

DATE	STREAM	SITE	FISH	NOTES
08/31/00	BROWN	3-B		0
08/31/00	BROWN	3-B		4
08/31/00	BROWN	3-B	123	
08/31/00	BROWN	3-B	149	
08/31/00	BROWN	3-B	203	
08/31/00	BROWN	3-B	61	
08/31/00	BROWN	3-B	60	
08/31/00	BROWN	3-B	156	
08/31/00	BROWN	3-B	12	
08/31/00	BROWN	3-B	76	
08/31/00	BROWN	3-B	90	
08/31/00	BROWN	3-B	91	
08/31/00	BROWN	3-B	121	
08/31/00	BROWN	3-B	66	
08/31/00	BROWN	3-B	67	
08/31/00	BROWN	3-B	51	
08/31/00	BROWN	3-B	150	
08/31/00	BROWN	3-B	49	
08/31/00	BROWN	3-B	50	
08/31/00	BROWN	3-B	122	
08/31/00	BROWN	3-B	124	
08/31/00	BROWN	3-B	151	
08/31/00	BROWN	3-B	173	
08/31/00	BROWN	3-B	202	
08/31/00	BROWN	3-B	84	
08/31/00	BROWN	3-B	174	
08/31/00	BROWN	3-B	135	
08/31/00	BROWN	3-B	196	
08/31/00	BROWN	3-B	44	
08/31/00	BROWN	3-B	47	
08/31/00	BROWN	3-B	97	
08/31/00	BROWN	3-B	119	
08/31/00	BROWN	3-B	6	
08/31/00	BROWN	3-B	17	
08/31/00	BROWN	3-B	52	
08/31/00	BROWN	3-B	120	
08/31/00	BROWN	3-B	134	
08/31/00	BROWN	3-B	77	
08/31/00	BROWN	3-B	82	
08/31/00	BROWN	3-B	148	
08/31/00	BROWN	3-B	171	
08/31/00	BROWN	3-B	198	
08/31/00	BROWN	3-B	42	
08/31/00	BROWN	3-B	111	
08/31/00	BROWN	3-B	112	
08/31/00	BROWN	3-B	169	
08/31/00	BROWN	3-B	9	
08/31/00	BROWN	3-B	37	
08/31/00	BROWN	3-B	46	
08/31/00	BROWN	3-B	48	
08/31/00	BROWN	3-B	117	
08/31/00	BROWN	3-B	127	
08/31/00	BROWN	3-B	140	
08/31/00	BROWN	3-B	192	
08/31/00	BROWN	3-B	30	
08/31/00	BROWN	3-B	55	
08/31/00	BROWN	3-B	83	
08/31/00	BROWN	3-B	107	
08/31/00	BROWN	3-B	132	
08/31/00	BROWN	3-B	141	
08/31/00	BROWN	3-B	199	
08/31/00	BROWN	3-B	3	
08/31/00	BROWN	3-B	10	
08/31/00	BROWN	3-B	15	
08/31/00	BROWN	3-B	39	
08/31/00	BROWN	3-B	53	
08/31/00	BROWN	3-B	54	
08/31/00	BROWN	3-B	96	
08/31/00	BROWN	3-B	1	
08/31/00	BROWN	3-B	4	
08/31/00	BROWN	3-B	33	
08/31/00	BROWN	3-B	41	
08/31/00	BROWN	3-B	45	
08/31/00	BROWN	3-B	59	
08/31/00	BROWN	3-B	81	
08/31/00	BROWN	3-B	110	
08/31/00	BROWN	3-B	172	
08/31/00	BROWN	3-B	193	
08/31/00	BROWN	3-B	200	
08/31/00	BROWN	3-B	201	

08/31/00	2	BROWN	3-B		COT	2			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	11			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	16			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	70			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	93			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	101			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	115			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	126			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	194			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	80			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	118			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	129			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	131			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	142			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	189			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	197			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	31			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	56			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	75			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	78			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	105			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	125			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	146			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	147			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	168			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	190			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	8			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	14			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	43			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	85			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	5			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	109			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	175			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	92			49		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	195			49		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	18			50		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	35			50		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	159			50		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	191			51		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	38			52		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	114			52		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	64			53		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	161			56		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	181			59		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	32			61		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	21			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	22			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	188			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	28			63		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	94			63		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	104			63		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	113			64		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	139			64		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	145			64		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	179			64		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	13			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	108			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	157			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	158			66		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	162			66		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	167			66		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	79			67		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	95			67		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	160			67		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	34			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	128			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	163			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	99			69		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	102			69		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	68			70		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	74			71		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	98			71		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	138			71		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	186			72		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	27			73		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	100			73		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	137			73		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	178			73		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	63			74		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	180			74		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	65			75		N	Y	N	N		N	UNK

08/31/00	2	BROWN	3-B		COT	133			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	136			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	185			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	187			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	58			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	130			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	143			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	183			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	103			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	106			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	144			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	170			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	19			79		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	177			79		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	20			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	24			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	25			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	36			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	62			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	7			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	40			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	57			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	166			83		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	72			85		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	116			85		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	71			87		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	164			87		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	73			88		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	165			88		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	26			92		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	23			93		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	69			93		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	29			96		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	184			96		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		COT	182			111		N	Y	N	N		N	UNK
08/31/00	2	BROWN	3-B		WCT	152			47	46	Y	Y	Y	Y	152	N	N
08/31/00	2	BROWN	3-B		WCT	89			51	50	Y	Y	Y	Y	89	N	N
08/31/00	2	BROWN	3-B		WCT	88			55	53	Y	Y	Y	Y	88	N	N
08/31/00	2	BROWN	3-B		WCT	155			47	46	Y	Y	Y	N		N	N
08/31/00	2	BROWN	3-B		WCT	153			51	49	Y	Y	Y	N		N	N
08/31/00	2	BROWN	3-B		WCT	87			53	51	Y	Y	Y	N		N	N
08/31/00	2	BROWN	3-B		WCT	176			54	52	Y	Y	Y	N		N	N
08/31/00	2	BROWN	3-B		WCT	154			55	53	Y	Y	Y	N		N	N
08/31/00	2	BROWN	3-B		WCT	86			60	58	Y	Y	Y	N		N	N
08/31/00	2	BROWN	B-C		TFA						N	N	N	N		N	UNK
08/31/00	2	BROWN	B-C		TFL						N	N	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	124			16		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	90			17		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	114			18		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	25			19		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	91			21		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	95			36		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	56			37		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	52			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	115			38		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	35			39		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	21			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	38			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	42			40		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	4			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	22			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	47			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	87			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	113			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	119			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	23			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	37			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	48			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	53			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	117			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	16			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	60			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	67			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	112			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	19			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	46			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	54			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	65			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	88			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	108			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	5			46		N	Y	N	N		N	UNK

08/31/00	BROWN	3-B	133	
08/31/00	BROWN	3-B	136	
08/31/00	BROWN	3-B	185	
08/31/00	BROWN	3-B	187	
08/31/00	BROWN	3-B	58	
08/31/00	BROWN	3-B	130	
08/31/00	BROWN	3-B	143	
08/31/00	BROWN	3-B	183	
08/31/00	BROWN	3-B	103	
08/31/00	BROWN	3-B	106	
08/31/00	BROWN	3-B	144	
08/31/00	BROWN	3-B	170	
08/31/00	BROWN	3-B	19	
08/31/00	BROWN	3-B	177	
08/31/00	BROWN	3-B	20	
08/31/00	BROWN	3-B	24	
08/31/00	BROWN	3-B	25	
08/31/00	BROWN	3-B	36	
08/31/00	BROWN	3-B	62	
08/31/00	BROWN	3-B	7	
08/31/00	BROWN	3-B	40	
08/31/00	BROWN	3-B	57	
08/31/00	BROWN	3-B	166	
08/31/00	BROWN	3-B	72	
08/31/00	BROWN	3-B	116	
08/31/00	BROWN	3-B	71	
08/31/00	BROWN	3-B	164	
08/31/00	BROWN	3-B	73	
08/31/00	BROWN	3-B	165	
08/31/00	BROWN	3-B	26	
08/31/00	BROWN	3-B	23	
08/31/00	BROWN	3-B	69	
08/31/00	BROWN	3-B	29	
08/31/00	BROWN	3-B	184	
08/31/00	BROWN	3-B	182	
08/31/00	BROWN	3-B	152	
08/31/00	BROWN	3-B	89	
08/31/00	BROWN	3-B	88	
08/31/00	BROWN	3-B	155	
08/31/00	BROWN	3-B	153	
08/31/00	BROWN	3-B	87	
08/31/00	BROWN	3-B	176	
08/31/00	BROWN	3-B	154	
08/31/00	BROWN	3-B	86	
08/31/00	BROWN	B-C		6
08/31/00	BROWN	B-C		27
08/31/00	BROWN	B-C	124	
08/31/00	BROWN	B-C	90	
08/31/00	BROWN	B-C	114	
08/31/00	BROWN	B-C	25	
08/31/00	BROWN	B-C	91	
08/31/00	BROWN	B-C	95	
08/31/00	BROWN	B-C	56	
08/31/00	BROWN	B-C	52	
08/31/00	BROWN	B-C	115	
08/31/00	BROWN	B-C	35	
08/31/00	BROWN	B-C	21	
08/31/00	BROWN	B-C	38	
08/31/00	BROWN	B-C	42	
08/31/00	BROWN	B-C	4	
08/31/00	BROWN	B-C	22	
08/31/00	BROWN	B-C	47	
08/31/00	BROWN	B-C	87	
08/31/00	BROWN	B-C	113	
08/31/00	BROWN	B-C	119	
08/31/00	BROWN	B-C	23	
08/31/00	BROWN	B-C	37	
08/31/00	BROWN	B-C	48	
08/31/00	BROWN	B-C	53	
08/31/00	BROWN	B-C	117	
08/31/00	BROWN	B-C	16	
08/31/00	BROWN	B-C	60	
08/31/00	BROWN	B-C	67	
08/31/00	BROWN	B-C	112	
08/31/00	BROWN	B-C	19	
08/31/00	BROWN	B-C	46	
08/31/00	BROWN	B-C	54	
08/31/00	BROWN	B-C	65	
08/31/00	BROWN	B-C	88	
08/31/00	BROWN	B-C	108	
08/31/00	BROWN	B-C	5	

08/31/00	2	BROWN	B-C	1	COT	30			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	49			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	61			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	102			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	118			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	20			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	28			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	85			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	89			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	121			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	123			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	29			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	66			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	100			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	109			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	62			49		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	24			50		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	105			50		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	33			51		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	55			51		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	69			58		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	64			59		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	107			61		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	50			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	78			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	82			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	103			62		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	31			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	86			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	93			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	99			65		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	84			66		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	101			66		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	94			67		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	106			67		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	18			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	34			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	63			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	104			68		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	17			69		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	122			69		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	32			70		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	44			70		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	83			70		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	76			73		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	2			74		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	12			74		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	7			75		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	10			75		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	97			75		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	111			75		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	11			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	41			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	75			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	116			76		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	15			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	39			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	70			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	80			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	81			77		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	36			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	96			78		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	77			79		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	40			80		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	72			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	73			81		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	13			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	45			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	110			82		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	71			83		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	98			86		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	43			87		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	3			89		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	79			89		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	8			90		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	74			95		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	9			98		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	1	COT	6			102		N	Y	N	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	135			90	85	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	133			92	87	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	137			95	88	N	N	Y	N		N	UNK

08/31/00	2	BROWN	B-C	2	WCT	134			99	93	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	92			105	99	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	139			107	100	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	127			109	106	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	141			113	106	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	14			114	108	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	26			114	107	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	143			114	112	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	142			119	111	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	57			124	118	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	58			134	124	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	131			138	130	N	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	120			177	166	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	1			46	45	Y	Y	Y	Y	1	N	UNK
08/31/00	2	BROWN	B-C	1	WCT	59			49	47	Y	Y	Y	Y	59	N	UNK
08/31/00	2	BROWN	B-C	2	WCT	126			57	55	Y	N	Y	Y	135	N	UNK
08/31/00	2	BROWN	B-C	2	WCT	125			61	57	Y	N	Y	Y	134	N	UNK
08/31/00	2	BROWN	B-C	1	WCT	51			49	47	Y	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	27			52	50	Y	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	128			53	51	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	140			54	51	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	132			56	53	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	130			58	55	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	1	WCT	68			59	56	Y	Y	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	129			60	57	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	136			60	57	Y	N	Y	N		N	UNK
08/31/00	2	BROWN	B-C	2	WCT	138			61	57	Y	N	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	112			102	95	N	Y	Y	N		Y	UNK
09/01/00	2	BROWN	D-A	1	WCT	122			96	90	N	Y	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	114			97	91	N	Y	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	123			105	99	N	Y	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	116			106	100	N	Y	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	124			186	176	N	Y	Y	N		N	UNK
09/01/00	2	BROWN	D-A	1	WCT	119			51	49	Y	Y	Y	N		N	N
09/01/00	2	BROWN	D-A	1	WCT	120			52	50	Y	Y	Y	N		N	N
09/01/00	2	BROWN	D-A	1	WCT	113			57	55	Y	Y	Y	N		N	N
09/01/00	2	BROWN	D-A	1	WCT	115			58	55	Y	Y	Y	N		N	N
09/01/00	2	BROWN	D-A	1	WCT	117			67	63	Y	Y	Y	N		N	N
09/01/00	2	BROWN	D-A	1	BRT	121			67	63	N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	BRT	118			120	113	N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	111			15		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	108			17		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	109			17		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	110			17		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	106			31		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	107			35		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	29			36		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	86			36		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	98			36		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	26			37		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	32			38		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	47			38		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	91			38		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	5			39		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	27			39		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	78			40		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	90			40		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	93			40		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	105			40		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	79			41		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	102			41		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	2			42		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	28			42		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	72			42		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	100			42		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	104			42		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	8			43		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	30			43		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	31			44		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	37			44		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	87			44		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	94			44		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	39			45		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	54			45		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	69			45		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	23			46		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	45			46		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	71			46		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	51			47		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	74			47		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	83			47		N	Y	N	N		N	UNK

08/31/00	BROWN	B-C	134	
08/31/00	BROWN	B-C	92	
08/31/00	BROWN	B-C	139	
08/31/00	BROWN	B-C	127	
08/31/00	BROWN	B-C	141	
08/31/00	BROWN	B-C	14	
08/31/00	BROWN	B-C	26	
08/31/00	BROWN	B-C	143	
08/31/00	BROWN	B-C	142	
08/31/00	BROWN	B-C	57	
08/31/00	BROWN	B-C	58	
08/31/00	BROWN	B-C	131	
08/31/00	BROWN	B-C	120	
08/31/00	BROWN	B-C	1	
08/31/00	BROWN	B-C	59	
08/31/00	BROWN	B-C	126	
08/31/00	BROWN	B-C	125	
08/31/00	BROWN	B-C	51	
08/31/00	BROWN	B-C	27	
08/31/00	BROWN	B-C	128	
08/31/00	BROWN	B-C	140	
08/31/00	BROWN	B-C	132	
08/31/00	BROWN	B-C	130	
08/31/00	BROWN	B-C	68	
08/31/00	BROWN	B-C	129	
08/31/00	BROWN	B-C	136	
08/31/00	BROWN	B-C	138	
09/01/00	BROWN	D-A	112	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	122	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	114	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	123	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	116	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	124	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	119	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	120	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	113	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	115	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	117	COULD BE RBT HYBRID
09/01/00	BROWN	D-A	121	
09/01/00	BROWN	D-A	118	
09/01/00	BROWN	D-A	111	
09/01/00	BROWN	D-A	108	
09/01/00	BROWN	D-A	109	
09/01/00	BROWN	D-A	110	
09/01/00	BROWN	D-A	106	
09/01/00	BROWN	D-A	107	
09/01/00	BROWN	D-A	29	
09/01/00	BROWN	D-A	86	
09/01/00	BROWN	D-A	98	
09/01/00	BROWN	D-A	26	
09/01/00	BROWN	D-A	32	
09/01/00	BROWN	D-A	47	
09/01/00	BROWN	D-A	91	
09/01/00	BROWN	D-A	5	
09/01/00	BROWN	D-A	27	
09/01/00	BROWN	D-A	78	
09/01/00	BROWN	D-A	90	
09/01/00	BROWN	D-A	93	
09/01/00	BROWN	D-A	105	
09/01/00	BROWN	D-A	79	
09/01/00	BROWN	D-A	102	
09/01/00	BROWN	D-A	2	
09/01/00	BROWN	D-A	28	
09/01/00	BROWN	D-A	72	
09/01/00	BROWN	D-A	100	
09/01/00	BROWN	D-A	104	
09/01/00	BROWN	D-A	8	
09/01/00	BROWN	D-A	30	
09/01/00	BROWN	D-A	31	
09/01/00	BROWN	D-A	37	
09/01/00	BROWN	D-A	87	
09/01/00	BROWN	D-A	94	
09/01/00	BROWN	D-A	39	
09/01/00	BROWN	D-A	54	
09/01/00	BROWN	D-A	69	
09/01/00	BROWN	D-A	23	
09/01/00	BROWN	D-A	45	
09/01/00	BROWN	D-A	71	
09/01/00	BROWN	D-A	51	
09/01/00	BROWN	D-A	74	
09/01/00	BROWN	D-A	83	

09/01/00	2	BROWN	D-A	1	COT	92			47		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	101			47		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	50			48		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	70			48		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	80			48		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	103			48		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	88			49		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	10			54		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	59			57		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	11			58		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	9			60		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	63			60		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	4			61		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	84			61		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	46			62		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	68			62		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	82			62		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	97			62		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	99			62		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	57			63		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	18			64		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	66			65		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	67			66		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	6			67		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	14			68		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	53			68		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	58			68		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	64			68		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	22			69		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	77			70		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	89			70		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	12			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	42			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	56			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	65			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	95			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	96			71		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	7			72		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	73			72		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	17			73		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	34			74		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	62			74		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	13			75		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	35			75		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	49			75		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	33			76		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	85			76		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	1			77		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	43			77		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	52			77		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	76			77		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	3			78		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	25			78		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	40			78		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	41			78		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	19			79		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	61			79		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	24			80		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	44			83		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	55			84		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	81			84		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	38			85		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	75			86		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	36			87		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	16			88		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	20			89		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	60			90		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	48			91		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	15			92		N	Y	N	N		N	UNK
09/01/00	2	BROWN	D-A	1	COT	21			92		N	Y	N	N		N	UNK
09/11/00	2	BROWN	D-A		TFL						N	N	N	N		N	N
09/11/00	2	BROWN	D-A	2	WCT	128			92	86	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	126			95	89	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	125			96	90	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	131			101	95	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	129			106	101	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	127			126	119	N	N	Y	N		N	UNK
09/11/00	2	BROWN	D-A	2	WCT	130			168	158	N	N	Y	N		N	UNK
08/29/00	2	BROWN	LOW1		TFA						N	N	N	N		N	N
08/29/00	2	BROWN	LOW1		TFL						N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	9			73		N	Y	N	N		N	N

6b

ScalePat00_02.xls: FISHDAT00

09/01/00	BROWN	D-A	92	
09/01/00	BROWN	D-A	101	
09/01/00	BROWN	D-A	50	
09/01/00	BROWN	D-A	70	
09/01/00	BROWN	D-A	80	
09/01/00	BROWN	D-A	103	
09/01/00	BROWN	D-A	88	
09/01/00	BROWN	D-A	10	
09/01/00	BROWN	D-A	59	
09/01/00	BROWN	D-A	11	
09/01/00	BROWN	D-A	9	
09/01/00	BROWN	D-A	63	
09/01/00	BROWN	D-A	4	
09/01/00	BROWN	D-A	84	
09/01/00	BROWN	D-A	46	
09/01/00	BROWN	D-A	68	
09/01/00	BROWN	D-A	82	
09/01/00	BROWN	D-A	97	
09/01/00	BROWN	D-A	99	
09/01/00	BROWN	D-A	57	
09/01/00	BROWN	D-A	18	
09/01/00	BROWN	D-A	66	
09/01/00	BROWN	D-A	67	
09/01/00	BROWN	D-A	6	
09/01/00	BROWN	D-A	14	
09/01/00	BROWN	D-A	53	
09/01/00	BROWN	D-A	58	
09/01/00	BROWN	D-A	64	
09/01/00	BROWN	D-A	22	
09/01/00	BROWN	D-A	77	
09/01/00	BROWN	D-A	89	
09/01/00	BROWN	D-A	12	
09/01/00	BROWN	D-A	42	
09/01/00	BROWN	D-A	56	
09/01/00	BROWN	D-A	65	
09/01/00	BROWN	D-A	95	
09/01/00	BROWN	D-A	96	
09/01/00	BROWN	D-A	7	
09/01/00	BROWN	D-A	73	
09/01/00	BROWN	D-A	17	
09/01/00	BROWN	D-A	34	
09/01/00	BROWN	D-A	62	
09/01/00	BROWN	D-A	13	
09/01/00	BROWN	D-A	35	
09/01/00	BROWN	D-A	49	
09/01/00	BROWN	D-A	33	
09/01/00	BROWN	D-A	85	
09/01/00	BROWN	D-A	1	
09/01/00	BROWN	D-A	43	
09/01/00	BROWN	D-A	52	
09/01/00	BROWN	D-A	76	
09/01/00	BROWN	D-A	3	
09/01/00	BROWN	D-A	25	
09/01/00	BROWN	D-A	40	
09/01/00	BROWN	D-A	41	
09/01/00	BROWN	D-A	19	
09/01/00	BROWN	D-A	61	
09/01/00	BROWN	D-A	24	
09/01/00	BROWN	D-A	44	
09/01/00	BROWN	D-A	55	
09/01/00	BROWN	D-A	81	
09/01/00	BROWN	D-A	38	
09/01/00	BROWN	D-A	75	
09/01/00	BROWN	D-A	36	
09/01/00	BROWN	D-A	16	
09/01/00	BROWN	D-A	20	
09/01/00	BROWN	D-A	60	
09/01/00	BROWN	D-A	48	
09/01/00	BROWN	D-A	15	
09/01/00	BROWN	D-A	21	
09/11/00	BROWN	D-A		2
09/11/00	BROWN	D-A	128	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	126	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	125	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	131	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	129	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	127	COULD BE RBT HYBRID
09/11/00	BROWN	D-A	130	COULD BE RBT HYBRID
08/29/00	BROWN	LOW1		2
08/29/00	BROWN	LOW1		8
08/29/00	BROWN	LOW1	9	

08/29/00	2	BROWN	LOW1	1	COT	10			76		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	124			79	75	N	N	Y	Y	124	Y	N
08/29/00	2	BROWN	LOW1	1	WCT	66			104	97	N	Y	Y	Y	66	Y	N
08/29/00	2	BROWN	LOW1	1	WCT	65			105	98	N	Y	Y	Y	65	Y	N
08/29/00	2	BROWN	LOW1	2	WCT	130			106	99	N	N	Y	Y	130	Y	N
08/29/00	2	BROWN	LOW1	1	WCT	67			107	100	N	Y	Y	Y	67	Y	N
08/29/00	2	BROWN	LOW1	2	BRT	137			66		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	156			73		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	153			86		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	133			118		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	149			131		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	145			136		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	134			138		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	136			139		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	2	BRT	135			140		N	N	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	41			16		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	112			16		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	95			17		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	120			18		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	96			20		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	48			22		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	62			23		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	122			23		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	115			36		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	32			38		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	118			38		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	64			39		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	5			40		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	94			40		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	114			40		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	119			40		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	6			41		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	57			41		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	79			41		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	92			41		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	116			41		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	93			42		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	104			42		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	111			42		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	3			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	19			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	39			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	90			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	103			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	117			43		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	2			44		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	4			44		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	28			44		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	105			44		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	51			45		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	55			45		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	81			45		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	86			45		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	40			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	46			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	71			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	89			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	91			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	113			46		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	18			47		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	106			47		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	107			47		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	52			48		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	61			48		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	80			48		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	47			49		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	60			49		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	63			49		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	121			51		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	1			52		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	53			53		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	59			55		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	84			55		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	42			57		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	82			57		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	77			58		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	25			59		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	87			59		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	50			60		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	7			62		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	109			63		N	Y	N	N		N	N

08/29/00	2	BROWN	LOW1	1	COT	110			63		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	12			64		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	76			64		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	58			65		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	83			65		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	97			65		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	27			66		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	101			66		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	56			67		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	45			68		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	29			69		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	78			69		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	31			70		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	43			70		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	100			70		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	16			71		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	21			71		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	26			71		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	37			71		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	88			71		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	20			72		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	99			72		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	17			73		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	24			73		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	75			74		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	15			76		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	108			76		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	30			78		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	35			78		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	73			78		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	23			80		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	8			81		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	11			81		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	54			81		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	33			83		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	34			83		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	49			83		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	38			84		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	98			84		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	102			84		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	14			85		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	72			85		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	22			87		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	74			88		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	36			89		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	13			92		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	44			92		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	1	COT	85			93		N	Y	N	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	160			86	83	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	143			90	85	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	125			92	87	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	154			94	89	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	126			96	90	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	150			96	91	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	140			102	95	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	128			103	96	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	127			106	98	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	129			109	102	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	139			109	102	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	148			111	105	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	159			112	104	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	163			112	106	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	1	WCT	70			114	106	N	Y	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	144			114	106	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	1	WCT	68			115	109	N	Y	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	161			117	110	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	155			122	116	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	141			123	118	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	152			128	120	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	157			129	121	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	1	WCT	69			130	123	N	Y	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	146			131	124	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	138			137	129	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	164			170	160	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	142			185	176	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	147			186	176	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	158			197	184	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	162			206	194	N	N	Y	N		N	N
08/29/00	2	BROWN	LOW1	2	WCT	131			43	42	Y	N	Y	Y	131	N	N
08/29/00	2	BROWN	LOW1	2	WCT	151			45	44	Y	N	Y	Y	151	N	N
08/29/00	2	BROWN	LOW1	2	WCT	123			49	47	Y	N	Y	Y	123	N	N

08/29/00	2	BROWN	LOW1	2	WCT	132			50	48	Y	N	Y	Y	132	N	N
08/30/00	2	BROWN	LOW1	3	WCT	165			42	40	Y	N	N	Y	165	N	N
08/30/00	2	BROWN	LOW1	4	WCT	171			42	40	Y	N	N	Y	171	N	N
08/30/00	2	BROWN	LOW1	3	WCT	166			51	48	Y	N	N	Y	166	N	N
08/30/00	2	BROWN	LOW1	3	WCT	168			31	30	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	4	WCT	172			37	36	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	3	WCT	167			38	37	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	4	WCT	175			39	38	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	3	WCT	170			48	46	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	4	WCT	173			49	47	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	3	WCT	169			50	48	Y	N	N	N		N	N
08/30/00	2	BROWN	LOW1	4	WCT	174			51	49	Y	N	N	N		N	N
08/30/00	2	BROWN	MID2		TFA						N	N	N	N		N	N
08/30/00	2	BROWN	MID2		TFL						N	N	N	N		N	N
08/30/00	2	BROWN	MID2	5	BRT	150			53	50	N	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	168			93	88	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	169			94	88	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	167			96	89	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	170			35	34	Y	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	151			77	72	N	N	N	Y	151	Y	UNK
08/30/00	2	BROWN	MID2	6	WCT	152			81	77	N	N	N	Y	152	Y	UNK
08/30/00	2	BROWN	MID2	5	WCT	141			88	83	N	N	N	Y	141	Y	UNK
08/30/00	2	BROWN	MID2	6	WCT	164			70	66	N	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	144			94	87	N	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	145			96	89	N	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	159			100	93	N	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	142			36	35	Y	N	N	Y	142	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	153			37	35	Y	N	N	Y	153	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	155			37	36	Y	N	N	Y	155	N	UNK
08/30/00	2	BROWN	MID2	5	WCT	143			39	38	Y	N	N	Y	143	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	156			41	40	Y	N	N	Y	156	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	157			51	49	Y	N	N	Y	157	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	154			52	50	Y	N	N	Y	154	N	UNK
08/30/00	2	BROWN	MID2	6	WCT	165			29	28	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	149			34	33	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	148			35	34	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	146			37	36	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	160			37	35	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	163			38	37	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	5	WCT	147			39	37	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	158			39	38	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	161			45	43	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	162			48	46	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	6	WCT	166			48	46	Y	N	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	42			87	81	N	Y	Y	Y	42	Y	UNK
08/30/00	2	BROWN	MID2	1	WCT	38			106	100	N	Y	Y	Y	38	Y	UNK
08/30/00	2	BROWN	MID2	1	WCT	39			106	100	N	Y	Y	Y	39	Y	UNK
08/30/00	2	BROWN	MID2	1	WCT	41			106	98	N	Y	Y	Y	41	Y	UNK
08/30/00	2	BROWN	MID2	1	WCT	40			112	105	N	Y	Y	Y	40	Y	UNK
08/30/00	2	BROWN	MID2	4	WCT	135			127	119	N	N	Y	Y	135,A	Y	UNK
08/30/00	2	BROWN	MID2	2	BRT	116			111	105	N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	BRT	37			130	122	N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	94			20		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	75			34		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	90			38		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	5			39		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	33			40		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	51			40		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	71			41		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	84			41		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	15			42		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	50			42		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	66			42		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	83			42		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	3			43		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	72			43		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	28			44		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	89			44		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	93			44		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	68			45		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	77			45		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	92			45		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	26			46		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	76			46		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	80			46		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	91			46		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	14			47		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	30			47		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	57			47		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	32			48		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	4			49		N	Y	N	N		N	UNK

08/29/00	BROWN	LOW1	132	
08/30/00	BROWN	LOW1	165	
08/30/00	BROWN	LOW1	171	
08/30/00	BROWN	LOW1	166	
08/30/00	BROWN	LOW1	168	
08/30/00	BROWN	LOW1	172	
08/30/00	BROWN	LOW1	167	
08/30/00	BROWN	LOW1	175	
08/30/00	BROWN	LOW1	170	
08/30/00	BROWN	LOW1	173	
08/30/00	BROWN	LOW1	169	
08/30/00	BROWN	LOW1	174	
08/30/00	BROWN	MID2		2
08/30/00	BROWN	MID2		8
08/30/00	BROWN	MID2	150	
08/30/00	BROWN	MID2	168	
08/30/00	BROWN	MID2	169	
08/30/00	BROWN	MID2	167	
08/30/00	BROWN	MID2	170	
08/30/00	BROWN	MID2	151	
08/30/00	BROWN	MID2	152	
08/30/00	BROWN	MID2	141	
08/30/00	BROWN	MID2	164	
08/30/00	BROWN	MID2	144	
08/30/00	BROWN	MID2	145	
08/30/00	BROWN	MID2	159	
08/30/00	BROWN	MID2	142	
08/30/00	BROWN	MID2	153	
08/30/00	BROWN	MID2	155	
08/30/00	BROWN	MID2	143	
08/30/00	BROWN	MID2	156	
08/30/00	BROWN	MID2	157	
08/30/00	BROWN	MID2	154	
08/30/00	BROWN	MID2	165	
08/30/00	BROWN	MID2	149	
08/30/00	BROWN	MID2	148	
08/30/00	BROWN	MID2	146	
08/30/00	BROWN	MID2	160	
08/30/00	BROWN	MID2	163	
08/30/00	BROWN	MID2	147	
08/30/00	BROWN	MID2	158	
08/30/00	BROWN	MID2	161	
08/30/00	BROWN	MID2	162	
08/30/00	BROWN	MID2	166	
08/30/00	BROWN	MID2	42	
08/30/00	BROWN	MID2	38	
08/30/00	BROWN	MID2	39	
08/30/00	BROWN	MID2	41	
08/30/00	BROWN	MID2	40	
08/30/00	BROWN	MID2	135	
08/30/00	BROWN	MID2	116	
08/30/00	BROWN	MID2	37	
08/30/00	BROWN	MID2	94	
08/30/00	BROWN	MID2	75	
08/30/00	BROWN	MID2	90	
08/30/00	BROWN	MID2	5	
08/30/00	BROWN	MID2	33	
08/30/00	BROWN	MID2	51	
08/30/00	BROWN	MID2	71	
08/30/00	BROWN	MID2	84	
08/30/00	BROWN	MID2	15	
08/30/00	BROWN	MID2	50	
08/30/00	BROWN	MID2	66	
08/30/00	BROWN	MID2	83	
08/30/00	BROWN	MID2	3	
08/30/00	BROWN	MID2	72	
08/30/00	BROWN	MID2	28	
08/30/00	BROWN	MID2	89	
08/30/00	BROWN	MID2	93	
08/30/00	BROWN	MID2	68	
08/30/00	BROWN	MID2	77	
08/30/00	BROWN	MID2	92	
08/30/00	BROWN	MID2	26	
08/30/00	BROWN	MID2	76	
08/30/00	BROWN	MID2	80	
08/30/00	BROWN	MID2	91	
08/30/00	BROWN	MID2	14	
08/30/00	BROWN	MID2	30	
08/30/00	BROWN	MID2	57	
08/30/00	BROWN	MID2	32	
08/30/00	BROWN	MID2	4	

08/30/00	2	BROWN	MID2	1	COT	31			49		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	67			49		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	79			49		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	86			49		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	2			50		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	29			50		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	48			50		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	88			50		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	58			53		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	64			53		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	24			54		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	13			55		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	56			57		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	18			58		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	25			59		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	87			62		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	27			63		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	55			63		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	63			64		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	22			65		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	9			66		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	17			66		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	73			66		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	12			67		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	19			67		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	65			67		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	82			67		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	47			68		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	69			68		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	70			68		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	43			69		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	6			70		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	81			70		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	16			71		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	60			71		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	10			72		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	20			72		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	23			73		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	8			75		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	59			75		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	49			76		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	62			76		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	74			79		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	85			79		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	44			80		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	53			80		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	11			82		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	7			84		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	45			84		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	54			84		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	61			86		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	21			87		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	1	COT	1			89		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	78			89		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	52			92		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	46			100		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	119			16		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	120			17		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	122			17		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	123			17		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	121			19		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	2	COT	118			48		N	Y	N	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	129			70	66	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	109			80	75	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	3	WCT	127			80	75	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	106			88	83	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	107			88	82	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	3	WCT	124			88	81	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	97			90	84	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	130			91	86	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	96			93	88	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	98			93	87	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	112			94	88	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	114			95	89	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	131			97	90	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	117			99	93	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	133			99	92	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	113			100	94	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	132			100	92	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	3	WCT	126			105	98	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	3	WCT	125			111	103	N	N	Y	N		N	UNK

08/30/00	2	BROWN	MID2	4	WCT	140			120	113	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	134			125	118	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	1	WCT	35			127	120	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	1	WCT	36			139	130	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	108			146	138	N	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	3	WCT	128			224	203	N	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	102			35	34	Y	Y	Y	Y	102	N	UNK
08/30/00	2	BROWN	MID2	2	WCT	104			50	48	Y	Y	Y	Y	104	N	UNK
08/30/00	2	BROWN	MID2	4	WCT	138			31	30	Y	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	139			34	33	Y	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	103			35	34	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	111			36	34	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	136			39	37	Y	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	4	WCT	137			39	38	Y	N	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	101			40	39	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	99			42	40	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	115			44	42	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	95			45	43	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	1	WCT	34			47	45	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	100			47	45	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	105			50	48	Y	Y	Y	N		N	UNK
08/30/00	2	BROWN	MID2	2	WCT	110			52	50	Y	Y	Y	N		N	UNK
08/29/00	2	BROWN	UP1		TFA						N	N	N	N		N	UNK
08/29/00	2	BROWN	UP1		TFL						N	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	WCT	92			95	89	N	Y	Y	Y	92	N	UNK
08/29/00	2	BROWN	UP1	1	WCT	40			85	80	N	Y	Y	Y	40	Y	UNK
08/29/00	2	BROWN	UP1	2	WCT	93			89	84	N	Y	Y	Y	93	Y	UNK
08/29/00	2	BROWN	UP1	1	WCT	37			90	85	N	Y	Y	Y	37	Y	UNK
08/29/00	2	BROWN	UP1	1	WCT	36			93	88	N	Y	Y	Y	36	Y	UNK
08/29/00	2	BROWN	UP1	2	COT	71			33		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	73			35		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	83			35		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	86			35		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	88			35		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	67			36		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	82			36		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	85			36		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	94			37		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	31			38		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	84			38		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	30			39		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	74			39		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	35			40		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	90			40		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	79			41		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	89			41		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	17			43		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	80			43		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	87			43		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	59			44		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	62			44		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	32			45		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	81			45		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	42			46		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	78			47		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	21			52		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	53			52		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	41			54		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	54			54		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	63			55		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	13			57		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	57			57		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	76			58		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	26			60		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	34			60		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	65			60		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	6			61		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	7			61		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	19			61		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	22			61		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	33			61		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	28			62		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	66			62		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	8			65		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	20			65		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	25			66		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	52			66		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	72			67		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	4			68		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	18			68		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	43			68		N	Y	N	N		N	UNK

08/30/00	BROWN	MID2	140	
08/30/00	BROWN	MID2	134	
08/30/00	BROWN	MID2	35	
08/30/00	BROWN	MID2	36	
08/30/00	BROWN	MID2	108	
08/30/00	BROWN	MID2	128	
08/30/00	BROWN	MID2	102	
08/30/00	BROWN	MID2	104	
08/30/00	BROWN	MID2	138	
08/30/00	BROWN	MID2	139	
08/30/00	BROWN	MID2	103	
08/30/00	BROWN	MID2	111	
08/30/00	BROWN	MID2	136	
08/30/00	BROWN	MID2	137	
08/30/00	BROWN	MID2	101	
08/30/00	BROWN	MID2	99	
08/30/00	BROWN	MID2	115	
08/30/00	BROWN	MID2	95	
08/30/00	BROWN	MID2	34	
08/30/00	BROWN	MID2	100	
08/30/00	BROWN	MID2	105	
08/30/00	BROWN	MID2	110	
08/29/00	BROWN	UP1		0
08/29/00	BROWN	UP1		11
08/29/00	BROWN	UP1	92	
08/29/00	BROWN	UP1	40	
08/29/00	BROWN	UP1	93	
08/29/00	BROWN	UP1	37	
08/29/00	BROWN	UP1	36	
08/29/00	BROWN	UP1	71	
08/29/00	BROWN	UP1	73	
08/29/00	BROWN	UP1	83	
08/29/00	BROWN	UP1	86	
08/29/00	BROWN	UP1	88	
08/29/00	BROWN	UP1	67	
08/29/00	BROWN	UP1	82	
08/29/00	BROWN	UP1	85	
08/29/00	BROWN	UP1	94	
08/29/00	BROWN	UP1	31	
08/29/00	BROWN	UP1	84	
08/29/00	BROWN	UP1	30	
08/29/00	BROWN	UP1	74	
08/29/00	BROWN	UP1	35	
08/29/00	BROWN	UP1	90	
08/29/00	BROWN	UP1	79	
08/29/00	BROWN	UP1	89	
08/29/00	BROWN	UP1	17	
08/29/00	BROWN	UP1	80	
08/29/00	BROWN	UP1	87	
08/29/00	BROWN	UP1	59	
08/29/00	BROWN	UP1	62	
08/29/00	BROWN	UP1	32	
08/29/00	BROWN	UP1	81	
08/29/00	BROWN	UP1	42	
08/29/00	BROWN	UP1	78	
08/29/00	BROWN	UP1	21	
08/29/00	BROWN	UP1	53	
08/29/00	BROWN	UP1	41	
08/29/00	BROWN	UP1	54	
08/29/00	BROWN	UP1	63	
08/29/00	BROWN	UP1	13	
08/29/00	BROWN	UP1	57	
08/29/00	BROWN	UP1	76	
08/29/00	BROWN	UP1	26	
08/29/00	BROWN	UP1	34	
08/29/00	BROWN	UP1	65	
08/29/00	BROWN	UP1	6	
08/29/00	BROWN	UP1	7	
08/29/00	BROWN	UP1	19	
08/29/00	BROWN	UP1	22	
08/29/00	BROWN	UP1	33	
08/29/00	BROWN	UP1	28	
08/29/00	BROWN	UP1	66	
08/29/00	BROWN	UP1	8	
08/29/00	BROWN	UP1	20	
08/29/00	BROWN	UP1	25	
08/29/00	BROWN	UP1	52	
08/29/00	BROWN	UP1	72	
08/29/00	BROWN	UP1	4	
08/29/00	BROWN	UP1	18	
08/29/00	BROWN	UP1	43	

08/29/00	2	BROWN	UP1	2	COT	45			68		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	58			68		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	14			69		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	24			69		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	47			69		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	68			69		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	69			69		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	9			70		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	44			70		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	75			70		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	3			71		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	48			71		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	11			72		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	27			72		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	49			72		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	61			73		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	70			74		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	15			75		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	50			76		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	51			76		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	77			76		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	60			79		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	64			79		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	2			80		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	46			80		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	1			81		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	12			84		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	16			84		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	5			85		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	23			85		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	10			90		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	1	COT	29			90		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	55			91		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	2	COT	56			98		N	Y	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	130			78	73	N	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	134			65	60	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	110			70	65	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	141			74	69	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	117			77	72	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	142			77	72	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	133			78	72	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	98			79	74	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	116			82	77	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	118			83	78	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	145			83	78	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	135			84	79	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	137			84	78	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	99			85	80	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	136			85	80	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	143			86	80	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	144			86	81	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	132			88	82	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	131			89	82	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	115			90	85	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	101			95	88	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	138			95	90	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	106			96	90	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	146			101	95	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	111			103	97	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	102			107	101	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	114			128	123	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	1	WCT	38			129	120	N	Y	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	105			134	128	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	140			136	128	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	112			140	132	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	109			143	136	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	147			145	139	N	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	1	WCT	39			149	140	N	Y	Y	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	120			34	33	Y	N	N	Y	120	N	UNK
08/29/00	2	BROWN	UP1	4	WCT	121			35	34	Y	N	N	Y	121	N	UNK
08/29/00	2	BROWN	UP1	4	WCT	119			43	41	Y	N	N	Y	119	N	UNK
08/29/00	2	BROWN	UP1	3	WCT	96			42	41	Y	N	Y	Y	96	N	UNK
08/29/00	2	BROWN	UP1	3	WCT	97			43	42	Y	N	Y	Y	97	N	UNK
08/29/00	2	BROWN	UP1	3	WCT	95			44	42	Y	N	Y	Y	95	N	UNK
08/29/00	2	BROWN	UP1	4	WCT	128			36	35	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	125			40	39	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	123			42	40	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	124			42	40	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	127			42	40	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	126			45	43	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	4	WCT	129			45	43	Y	N	N	N		N	UNK

08/29/00	2	BROWN	UP1	4	WCT	122			46	44	Y	N	N	N		N	UNK
08/29/00	2	BROWN	UP1	5	WCT	139			35	34	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	104			36	35	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	100			40	39	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	107			40	39	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	113			41	39	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	108			42	40	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	3	WCT	103			43	41	Y	N	Y	N		N	UNK
08/29/00	2	BROWN	UP1	2	WCT	91			47	46	Y	Y	Y	N		N	UNK
08/29/00	2	BROWN	UP2		TFA						N	N	N	N		N	N
08/29/00	2	BROWN	UP2		TFL						N	N	N	N		N	N
08/29/00	2	BROWN	UP2	3	WCT	6			78	74	N	Y	Y	Y	6	Y	N
08/29/00	2	BROWN	UP2	1	WCT	80			81	76	N	N	Y	Y	80	Y	N
08/29/00	2	BROWN	UP2	3	WCT	5			82	78	N	Y	Y	Y	5	Y	N
08/29/00	2	BROWN	UP2	1	WCT	79			84	79	N	N	Y	Y	79	Y	N
08/29/00	2	BROWN	UP2	3	WCT	1			88	83	N	Y	Y	Y	1	Y	N
08/29/00	2	BROWN	UP2	4	WCT	29			89	83	N	Y	Y	Y	29	Y	N
08/29/00	2	BROWN	UP2	3	WCT	2			91	86	N	Y	Y	Y	2	Y	N
08/29/00	2	BROWN	UP2	4	WCT	18			95	89	N	Y	Y	Y	18	Y	N
08/29/00	2	BROWN	UP2	4	COT	46			30		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	14			32		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	17			33		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	24			35		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	75			35		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	72			36		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	56			37		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	68			41		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	73			41		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	76			41		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	64			46		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	36			49		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	58			51		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	16			52		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	55			52		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	7			53		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	34			54		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	65			55		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	22			58		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	70			58		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	12			61		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	33			61		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	57			61		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	63			61		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	11			62		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	13			62		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	44			62		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	54			62		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	67			62		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	71			64		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	10			65		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	59			66		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	47			67		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	8			68		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	45			68		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	9			69		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	35			69		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	61			69		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	62			70		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	3	COT	15			72		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	20			72		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	52			73		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	69			76		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	19			77		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	31			77		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	66			77		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	42			78		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	53			79		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	60			80		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	23			81		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	32			82		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	43			82		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	COT	21			83		N	Y	N	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	38			71	67	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	51			73	69	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	84			77	72	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	39			79	74	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	25			81	76	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	94			82	79	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	93			84	80	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	95			86	82	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	37			90	85	N	Y	Y	N		N	N

08/29/00	BROWN	UP1	122	
08/29/00	BROWN	UP1	139	
08/29/00	BROWN	UP1	104	
08/29/00	BROWN	UP1	100	
08/29/00	BROWN	UP1	107	
08/29/00	BROWN	UP1	113	
08/29/00	BROWN	UP1	108	
08/29/00	BROWN	UP1	103	
08/29/00	BROWN	UP1	91	
08/29/00	BROWN	UP2		4
08/29/00	BROWN	UP2		13
08/29/00	BROWN	UP2	6	
08/29/00	BROWN	UP2	80	
08/29/00	BROWN	UP2	5	
08/29/00	BROWN	UP2	79	
08/29/00	BROWN	UP2	1	
08/29/00	BROWN	UP2	29	
08/29/00	BROWN	UP2	2	
08/29/00	BROWN	UP2	18	
08/29/00	BROWN	UP2	46	
08/29/00	BROWN	UP2	14	
08/29/00	BROWN	UP2	17	
08/29/00	BROWN	UP2	24	
08/29/00	BROWN	UP2	75	
08/29/00	BROWN	UP2	72	
08/29/00	BROWN	UP2	56	
08/29/00	BROWN	UP2	68	
08/29/00	BROWN	UP2	73	
08/29/00	BROWN	UP2	76	
08/29/00	BROWN	UP2	64	
08/29/00	BROWN	UP2	36	
08/29/00	BROWN	UP2	58	
08/29/00	BROWN	UP2	16	
08/29/00	BROWN	UP2	55	
08/29/00	BROWN	UP2	7	
08/29/00	BROWN	UP2	34	
08/29/00	BROWN	UP2	65	
08/29/00	BROWN	UP2	22	
08/29/00	BROWN	UP2	70	
08/29/00	BROWN	UP2	12	
08/29/00	BROWN	UP2	33	
08/29/00	BROWN	UP2	57	
08/29/00	BROWN	UP2	63	
08/29/00	BROWN	UP2	11	
08/29/00	BROWN	UP2	13	
08/29/00	BROWN	UP2	44	
08/29/00	BROWN	UP2	54	
08/29/00	BROWN	UP2	67	
08/29/00	BROWN	UP2	71	
08/29/00	BROWN	UP2	10	
08/29/00	BROWN	UP2	59	
08/29/00	BROWN	UP2	47	
08/29/00	BROWN	UP2	8	
08/29/00	BROWN	UP2	45	
08/29/00	BROWN	UP2	9	
08/29/00	BROWN	UP2	35	
08/29/00	BROWN	UP2	61	
08/29/00	BROWN	UP2	62	
08/29/00	BROWN	UP2	15	
08/29/00	BROWN	UP2	20	
08/29/00	BROWN	UP2	52	
08/29/00	BROWN	UP2	69	
08/29/00	BROWN	UP2	19	
08/29/00	BROWN	UP2	31	
08/29/00	BROWN	UP2	66	
08/29/00	BROWN	UP2	42	
08/29/00	BROWN	UP2	53	
08/29/00	BROWN	UP2	60	
08/29/00	BROWN	UP2	23	
08/29/00	BROWN	UP2	32	
08/29/00	BROWN	UP2	43	
08/29/00	BROWN	UP2	21	
08/29/00	BROWN	UP2	38	
08/29/00	BROWN	UP2	51	
08/29/00	BROWN	UP2	84	
08/29/00	BROWN	UP2	39	
08/29/00	BROWN	UP2	25	
08/29/00	BROWN	UP2	94	
08/29/00	BROWN	UP2	93	
08/29/00	BROWN	UP2	95	
08/29/00	BROWN	UP2	37	

08/29/00	2	BROWN	UP2	4	WCT	40			90	86	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	83			90	84	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	88			90	84	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	90			90	85	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	86			94	88	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	96			95	90	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	87			96	90	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	92			98	93	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	27			122	116	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	50			130	124	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	5	WCT	77			131	124	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	48			132	125	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	26			143	135	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	5	WCT	78			152	144	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	49			162	153	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	28			163	154	N	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	98			169	164	N	N	Y	N		N	N
08/29/00	2	BROWN	UP2	1	WCT	91			124	118	N	N	Y	N		N	Y
08/29/00	2	BROWN	UP2	3	WCT	4			138	130	N	Y	Y	N		N	Y
08/29/00	2	BROWN	UP2	1	WCT	89			138	130	N	N	Y	N		N	Y
08/29/00	2	BROWN	UP2	4	WCT	41			151	143	N	Y	Y	N		N	Y
08/29/00	2	BROWN	UP2	1	WCT	97			155	147	N	N	Y	N		N	Y
08/29/00	2	BROWN	UP2	1	WCT	85			180	172	N	N	Y	N		N	Y
08/29/00	2	BROWN	UP2	3	WCT	3			27	26	Y	Y	Y	Y	3	N	N
08/29/00	2	BROWN	UP2	1	WCT	82			28	27	Y	N	Y	Y	82	N	N
08/29/00	2	BROWN	UP2	4	WCT	30			32	31	Y	Y	Y	Y	30	N	N
08/29/00	2	BROWN	UP2	1	WCT	81			36	35	Y	N	Y	Y	81	N	N
08/29/00	2	BROWN	UP2	1	WCT	99			38	37	Y	N	Y	Y	99	N	N
08/29/00	2	BROWN	UP2	2	WCT	100			25	24	Y	N	Y	N		N	N
08/29/00	2	BROWN	UP2	4	WCT	74			28	27	Y	Y	Y	N		N	N
08/29/00	2	BROWN	UP2	2	WCT	102			30	29	Y	N	Y	N		N	N
08/29/00	2	BROWN	UP2	2	WCT	101			35	34	Y	N	Y	N		N	N
08/29/00	2	BROWN	UP2	2	WCT	103			45	44	Y	N	Y	N		N	N
08/31/00	2	BROWN	A-E		TFL						N	N	N	N		N	UNK
08/31/00	2	BROWN	A-E		TFA						N	N	N	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	70			77	72	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	84			87	80	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	4			94	88	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	66			94	89	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	68			98	91	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	73			101	94	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	1			102	95	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	83			104	97	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	3			105	97	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	72			107	101	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	5			110	103	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	69			115	107	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	6			117	110	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	71			126	118	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	WCT	2			144	135	N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	2	WCT	82			305		N	Y	Y	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	29			21		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	64			41		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	28			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	51			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	58			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	60			42		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	26			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	27			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	31			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	49			43		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	39			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	62			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	65			44		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	14			45		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	15			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	23			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	44			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	45			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	47			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	57			46		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	9			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	25			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	40			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	54			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	61			47		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	33			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	46			48		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	8			49		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	24			49		N	Y	N	N		N	UNK
08/31/00	2	BROWN	A-E	1	COT	38			49		N	Y	N	N		N	UNK

08/29/00	BROWN	UP2	40	
08/29/00	BROWN	UP2	83	
08/29/00	BROWN	UP2	88	
08/29/00	BROWN	UP2	90	
08/29/00	BROWN	UP2	86	
08/29/00	BROWN	UP2	96	
08/29/00	BROWN	UP2	87	
08/29/00	BROWN	UP2	92	
08/29/00	BROWN	UP2	27	
08/29/00	BROWN	UP2	50	
08/29/00	BROWN	UP2	77	
08/29/00	BROWN	UP2	48	
08/29/00	BROWN	UP2	26	
08/29/00	BROWN	UP2	78	
08/29/00	BROWN	UP2	49	
08/29/00	BROWN	UP2	28	
08/29/00	BROWN	UP2	98	
08/29/00	BROWN	UP2	91	
08/29/00	BROWN	UP2	4	
08/29/00	BROWN	UP2	89	
08/29/00	BROWN	UP2	41	
08/29/00	BROWN	UP2	97	
08/29/00	BROWN	UP2	85	
08/29/00	BROWN	UP2	3	
08/29/00	BROWN	UP2	82	
08/29/00	BROWN	UP2	30	
08/29/00	BROWN	UP2	81	
08/29/00	BROWN	UP2	99	
08/29/00	BROWN	UP2	100	
08/29/00	BROWN	UP2	74	
08/29/00	BROWN	UP2	102	
08/29/00	BROWN	UP2	101	
08/29/00	BROWN	UP2	103	
08/31/00	BROWN	A-E		6
08/31/00	BROWN	A-E		7
08/31/00	BROWN	A-E	70	
08/31/00	BROWN	A-E	84	
08/31/00	BROWN	A-E	4	
08/31/00	BROWN	A-E	66	
08/31/00	BROWN	A-E	68	
08/31/00	BROWN	A-E	73	
08/31/00	BROWN	A-E	1	
08/31/00	BROWN	A-E	83	
08/31/00	BROWN	A-E	3	
08/31/00	BROWN	A-E	72	
08/31/00	BROWN	A-E	5	
08/31/00	BROWN	A-E	69	
08/31/00	BROWN	A-E	6	
08/31/00	BROWN	A-E	71	
08/31/00	BROWN	A-E	2	
08/31/00	BROWN	A-E	82	
08/31/00	BROWN	A-E	29	
08/31/00	BROWN	A-E	64	
08/31/00	BROWN	A-E	28	
08/31/00	BROWN	A-E	51	
08/31/00	BROWN	A-E	58	
08/31/00	BROWN	A-E	60	
08/31/00	BROWN	A-E	26	
08/31/00	BROWN	A-E	27	
08/31/00	BROWN	A-E	31	
08/31/00	BROWN	A-E	49	
08/31/00	BROWN	A-E	39	
08/31/00	BROWN	A-E	62	
08/31/00	BROWN	A-E	65	
08/31/00	BROWN	A-E	14	
08/31/00	BROWN	A-E	15	
08/31/00	BROWN	A-E	23	
08/31/00	BROWN	A-E	44	
08/31/00	BROWN	A-E	45	
08/31/00	BROWN	A-E	47	
08/31/00	BROWN	A-E	57	
08/31/00	BROWN	A-E	9	
08/31/00	BROWN	A-E	25	
08/31/00	BROWN	A-E	40	
08/31/00	BROWN	A-E	54	
08/31/00	BROWN	A-E	61	
08/31/00	BROWN	A-E	33	
08/31/00	BROWN	A-E	46	
08/31/00	BROWN	A-E	8	
08/31/00	BROWN	A-E	24	
08/31/00	BROWN	A-E	38	